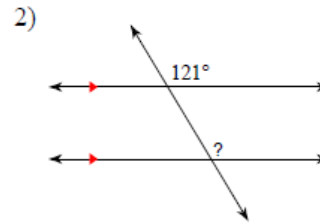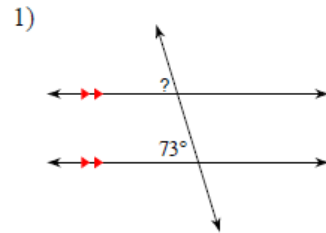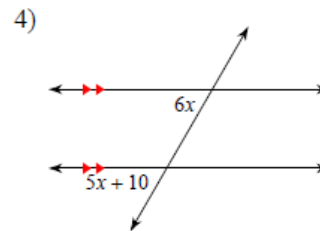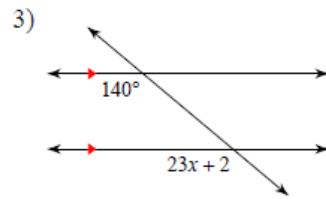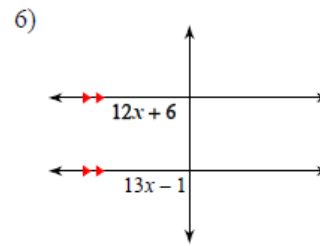# Parallel Lines and Angles …. Set 1 (with Answers)

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Find the measure of each angle indicated.

1)

?

73°

2)

121°

?

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Solve for x.

3)

140°

$23x + 2$

4)

$6x$

$5x + 10$

Find the measure of the angle indicated in bold.

5)

$4 + 32x$

$34x - 2$
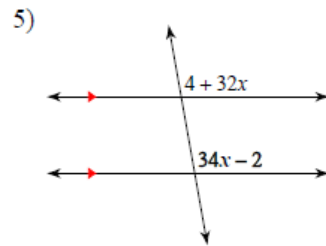
6)

$12x + 6$

$13x - 1$

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Find the measure of each angle indicated.
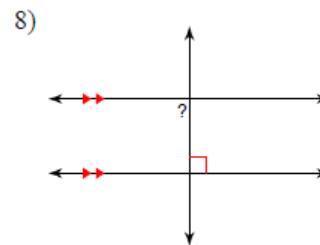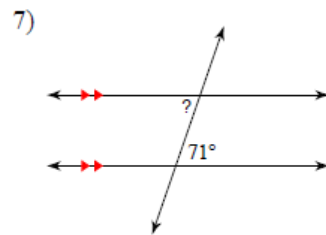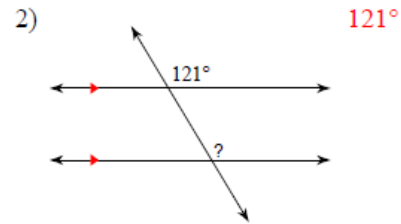
7)

?

71°

8)

?

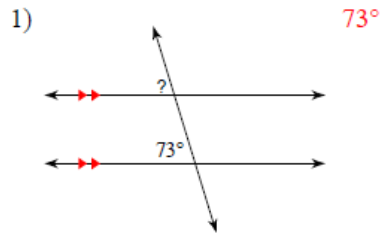# Answers

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Find the measure of each angle indicated.
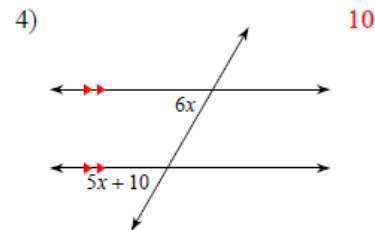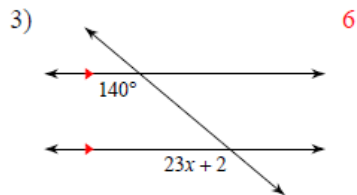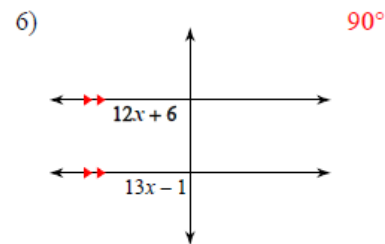
1) 73°

2) 121°

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Solve for x.

3) 6

4) 10

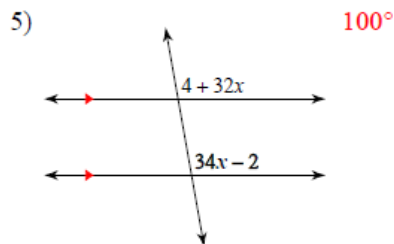**Find the measure of the angle indicated in bold.**

5) 100°

6) 90°

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Find the measure of each angle indicated.
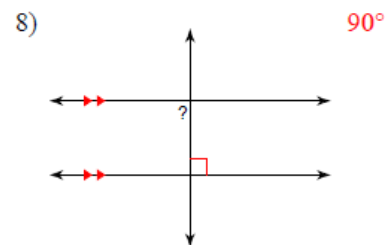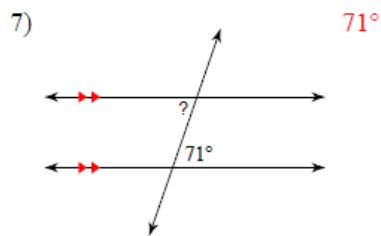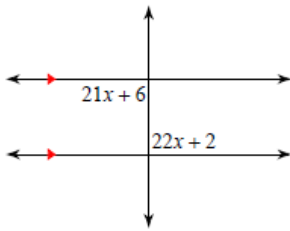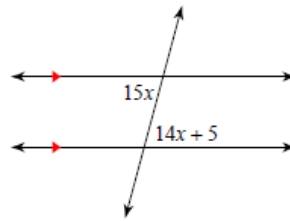
7) 71°
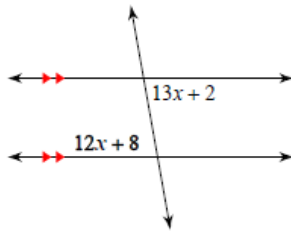
8) 90°

Solve for x.

9)

$21x + 6$

$22x + 2$

10)

$15x$

$14x + 5$

Find the measure of the angle indicated in bold.

11)

$13x + 2$

$12x + 8$

12)

$28x + 3$

$29x - 1$

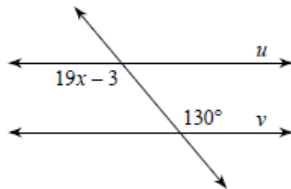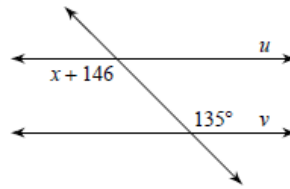**Find the value of x that makes lines u and v parallel.**
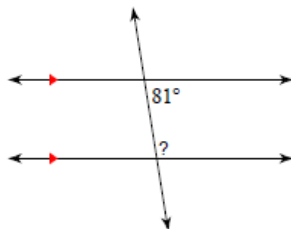
13)

u

$19x - 3$

$130°$ v

14)

u

$x + 146$

$135°$ v

**Identify the angle pair as either corresponding angles, alternate interior angles, same side interior an
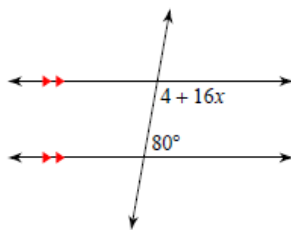Find the measure of each angle indicated.**

15)

$81°$

$?$

16)

$?$

$76°$

Solve for x.

17)

$4 + 16x$

$80°$

18)

$97°$

$15x + 8$

Answers

Solve for x.

9) 4

$21x + 6$

$22x + 2$

10) 5

$15x$

$14x + 5$

Find the measure of the angle indicated in bold.

11) 80°

$13x + 2$

$12x + 8$

12) 115°

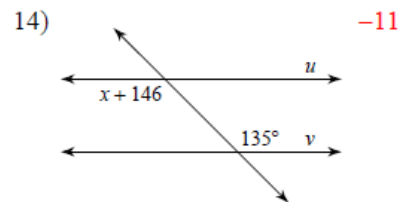$28x + 3$

$29x - 1$

Find the value of x that makes lines u and v parallel.

13) 7

u

$19x - 3$

130° v

14) −11

u

$x + 146$

135° v

Identify the angle pair as either corresponding angles, alternate interior angles, same side interior angles. Find the measure of each angle indicated.

15) 99°

81°

?

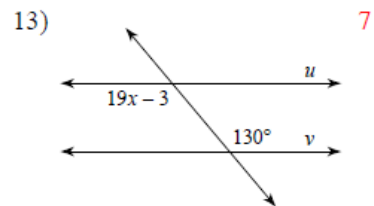16) 104°

?

76°

Solve for x.

17) 6

$4 + 16x$

80°

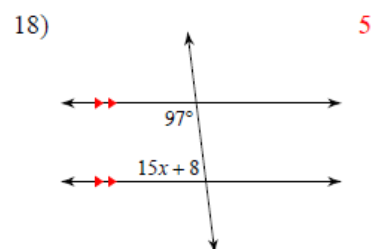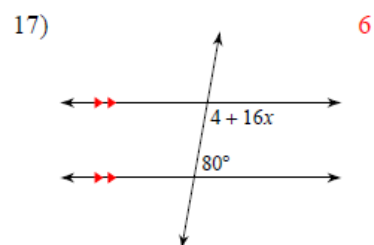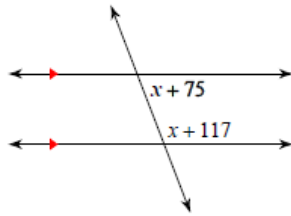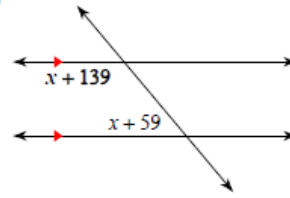18) 5

97°

$15x + 8$

4

Find the measure of the angle indicated in bold.

19)

$x + 75$

$x + 117$

20)

$x + 139$

$x + 59$

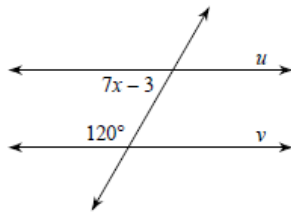**Find the value of x that makes lines u and v parallel.**

21)

$7x - 3$

$120°$

u

v

22)

$70°$

$18x + 2$

u

v

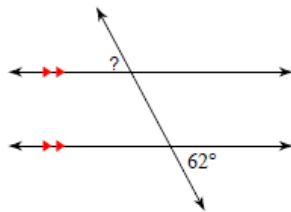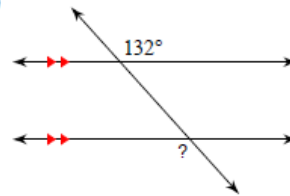**Identify as either alternate exterior angles or same side exterior angles. Find the measure of each angle indicated.**

23)

?

$62°$

24)

$132°$

?

Solve for x.

25)

$110°$

$14x - 2$

26)

$11x - 7$

$125°$

Find the measure of the angle indicated in bold.

27)

$14x + 4$

$13x + 13$

28)

$9x - 3$

$8x + 4$

Answers

Find the measure of the angle indicated in bold.

19) 69°

$x + 75$

$x + 117$

20) 130°

$x + 139$

$x + 59$

Find the value of _x_ that makes lines u and v parallel.

21) 9

_u_

$7x - 3$

120° _v_

22) 6

_u_

70°

$18x + 2$ _v_

Identify as either alternate exterior angles or same side exterior angles. Find the measure of each angle indicated.

23) 62°

?

62°

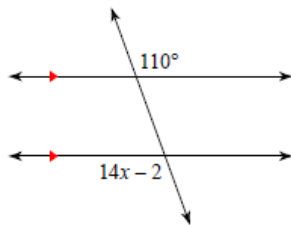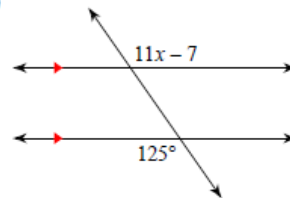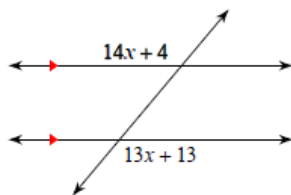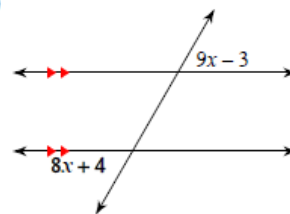24) 132°

132°

?

Solve for _x_.

25) 8

110°

$14x - 2$

26) 12

$11x - 7$

125°

Find the measure of the angle indicated in bold.

27) 130°

$14x + 4$

$13x + 13$

28) 60°

$9x - 3$

$8x + 4$

6

Parallel Lines and Angles …. Set 1 (with Answers)

Find the measure of the indicated angle that makes lines u and v parallel.

29)

30)

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or same-side interi

31)

32)
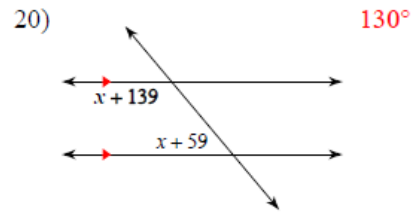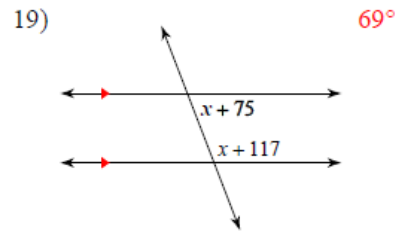

33)

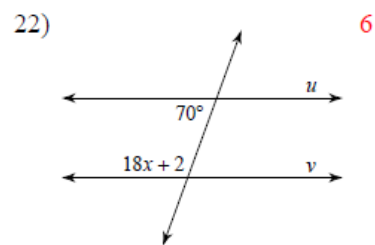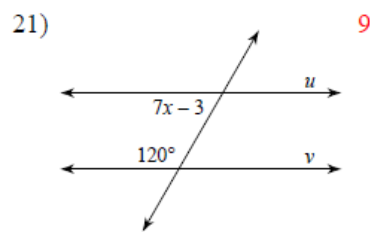34)

Find the measure of each angle indicated.

35)

36)
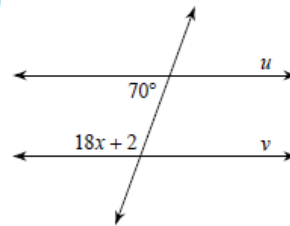
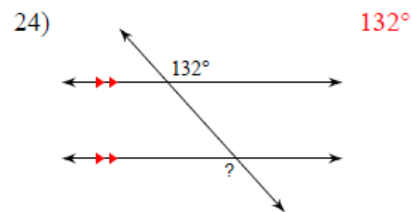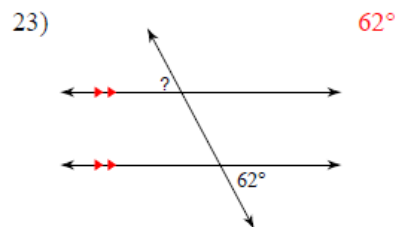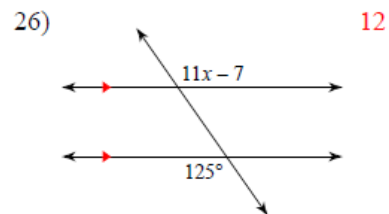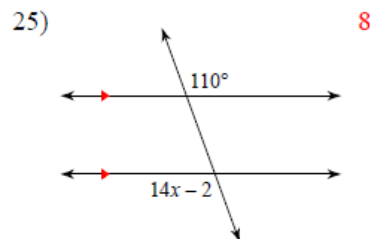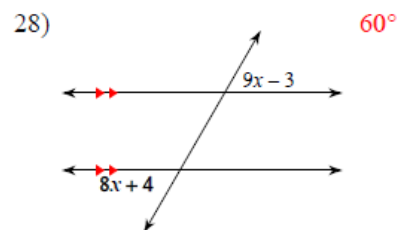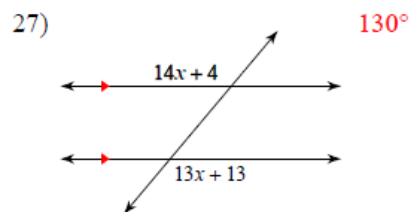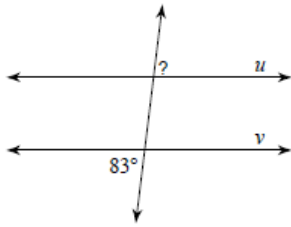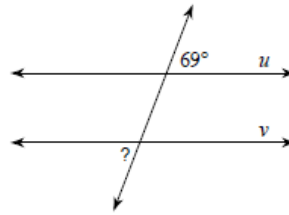# Parallel Lines and Angles …. Set 1 (with Answers)

Answers

Find the measure of the indicated angle that makes lines u and v parallel.
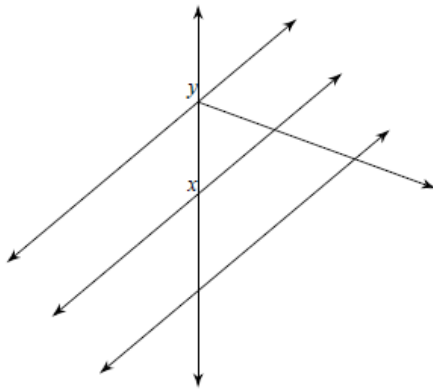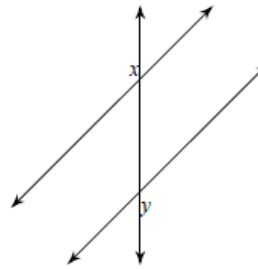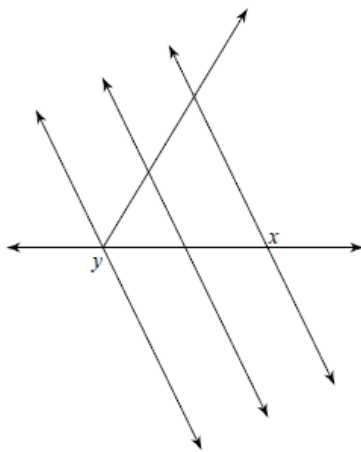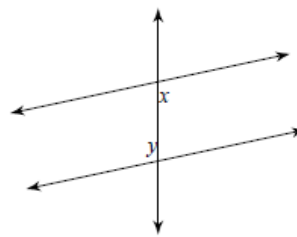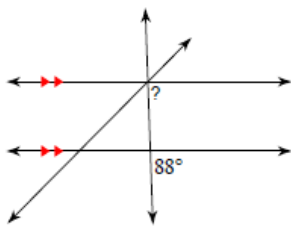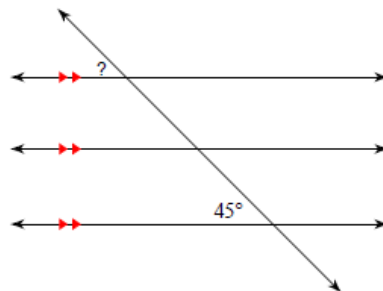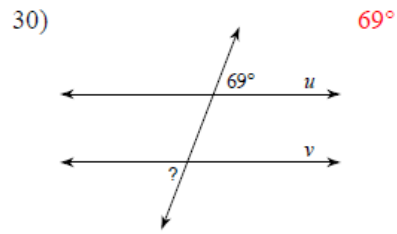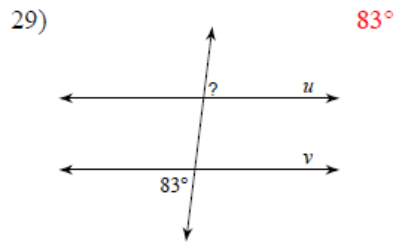
29) **83°**

30) **69°**

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or same-side interior.

31) **corresponding**

32) **alternate exterior**

33) **alternate exterior**

34) **alternate interior**

Find the measure of each angle indicated.

35) **88°**

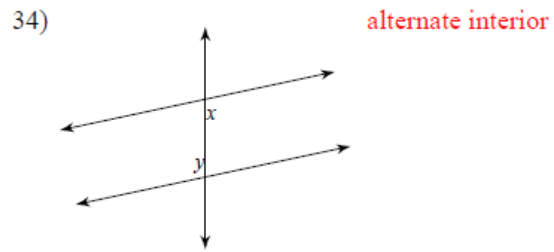36) **45°**

Solve for x.

37)

$-4 + 8x$

$6x + 12$

38)

$45°$

$x + 54$

Find the measure of the angle indicated in bold.

39)

$11x + 8$

$12x + 1$

40)

$x + 81$

$121 + x$

41)

$19x - 2$

$42x - 1$

42)

$6 + 11x$

$12x + 2$

43)

$7x + 11$

$9x - 3$

44)

$13x + 1$

$14x - 7$

Answers

Solve for x.

37)   8

$-4 + 8x$

$6x + 12$

38)   −9
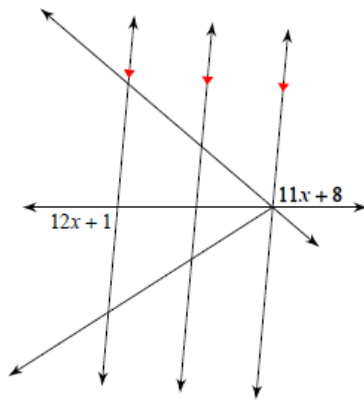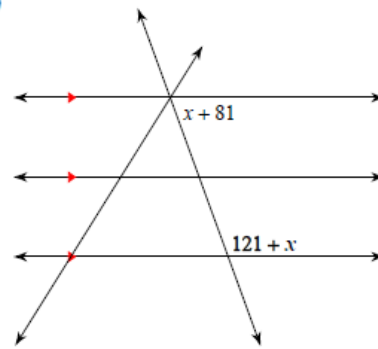
$45°$

$x + 54$

Find the measure of the angle indicated in bold.

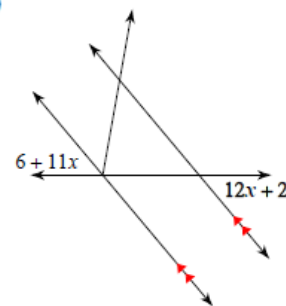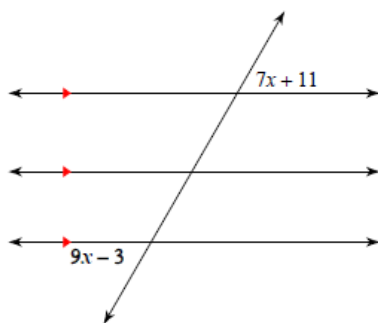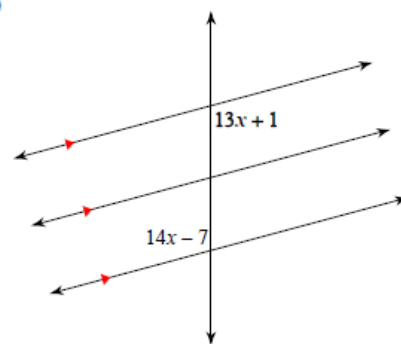39)   85°

$11x + 8$

$12x + 1$

40)   110°

$x + 81$

$121 + x$

41)   55°

$19x - 2$

$42x - 1$

42)   50°

$6 + 11x$

$12x + 2$

43)   60°

$7x + 11$

$9x - 3$

44)   105°

$13x + 1$

$14x - 7$