

4 Darrin deposited \$1800 into an account that compounds quarterly at 5%. Which formula could he use to find the balance of his account after 4 years? Assume that Darrin does not make additional deposits to his account, nor does he withdraw any of the funds. 4 _____

- A $A = 1800\left(1 - \frac{0.05}{4}\right)^{4(4)}$ B $A = 1800\left(1 - \frac{0.05}{4}\right)^4$
 C $A = 1800\left(1 + \frac{0.5}{4}\right)^{4(4)}$ D $A = 1800\left(1 + \frac{0.5}{4}\right)^4$
 E $A = 1800\left(1 + \frac{0.05}{4}\right)^{4(4)}$

5 Write 0.00165 in scientific notation. 5 _____

- A 16.5×10^{-5} B 1.65×10^{-5} C 1.65×10^{-4}
 D 1.65×10^{-3} E 1.65×10^2

6 For what value of x is $-5x + 8 = -6$ a true statement? 6 _____

- A 2.8 B 1.6 C 0.4
 D -0.4 E -2.8

7 Ben's CAD teacher said that supplies would cost no more than \$125 for the semester. Ben has already spent \$14 and knows there are two more projects p coming up that will cost about the same. Which inequality can he use to find how much he should spend on one project? 7 _____

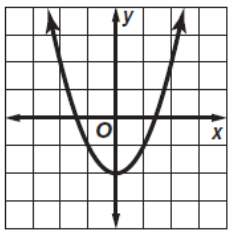
- A $125 \geq 2p - 14$ B $125 \geq 2p + 14$ C $125 \leq 2p - 14$
 D $125 \leq 2p + 14$ E $125 < 2p + 14$

8 The relationship between c and d is such that d is always 6 more than c . Which function represents this relationship? 8 _____

- A $c = d + 6$ B $c = 6d$ C $d = c + 6$
 D $d = c - 6$ E $d = 6 - c$

9 The equation that best describes the graph is 9 _____

- A $y = x^2 - 2$.
 B $y = 2x - 2$.
 C $y = 2^x$.
 D $y = 2x^2$.
 E $y = 2x^2 - 2$.



4 Darrin deposited \$1800 into an account that compounds quarterly at 5%. Which formula could he use to find the balance of his account after 4 years? Assume that Darrin does not make additional deposits to his account, nor does he withdraw any of the funds. **III.B.3.**

- A $A = 1800\left(1 - \frac{0.05}{4}\right)^{4(4)}$ B $A = 1800\left(1 - \frac{0.05}{4}\right)^4$
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4 **E**

5 Write 0.00165 in scientific notation. **I.C.1.**

- A 16.5×10^{-5} B 1.65×10^{-5} C 1.65×10^{-4}
 D 1.65×10^{-3} E 1.65×10^2

5 **D**

6 For what value of x is $-5x + 8 = -6$ a true statement? **I.D.3.**

- A 2.8 B 1.6 C 0.4
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6 **A**

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 D $125 \leq 2p + 14$ E $125 < 2p + 14$

7 **B**

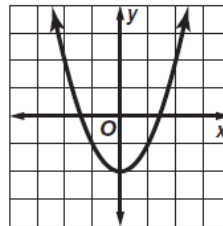
8 The relationship between c and d is such that d is always 6 more than c . Which function represents this relationship? **I.C.3.**

- A $c = d + 6$ B $c = 6d$ C $d = c + 6$
 D $d = c - 6$ E $d = 6 - c$

8 **C**

9 The equation that best describes the graph is **I.B.1.**

- A $y = x^2 - 2$.
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 C $y = 2^x$.
 D $y = 2x^2$.
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9 **A**