

Quiz 26.2

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Divide.

1) $(8x^3 + 4x^2 + 12x) \div 4x^2$

A) $\frac{x^2}{2} + x + \frac{1}{2}$

B) $x^5 + \frac{x^4}{2} + x^3$

C) $2x + 1 + \frac{3}{x}$

D) $2x^3 + 4x^2 + \frac{x}{3}$

2) $(4x^4 + 3x^3 + 3x^2) \div 6x^2$

A) $\frac{5x}{6} + 2 + \frac{1}{2x}$

B) $\frac{2x^2}{3} + \frac{x}{2} + \frac{1}{2}$

C) $x + \frac{1}{2} + \frac{3}{x}$

D) $3x^5 + 2x^4 + \frac{x^3}{4}$

Factor the greatest common factor out of each expression.

3) $90ab^8 - 40b + 90$

A) $10(9ab^8 - 4b + 9)$

B) $b(9ab^8 - 4b + 1)$

C) $2b(45ab^8 - 4b + 9)$

D) $2a(9ab^8 - 4b + 3)$

4) $7y^3x - 4yx - 10y$

A) $yx(7xy^2 - 4x^2 - 20)$

B) $y^2(7x^2y^2 - 4xy - 10x)$

C) $x(7xy^3 - 4xy - 10y)$

D) $y(7xy^2 - 4x - 10)$

Solve each system by graphing.

5) $y = -\frac{1}{2}x - 1$

$y = -\frac{5}{2}x + 3$

A) (2, 2)

B) (2, -2)

C) No solution

D) Infinite number of solutions

6) $y = -\frac{2}{3}x + 2$

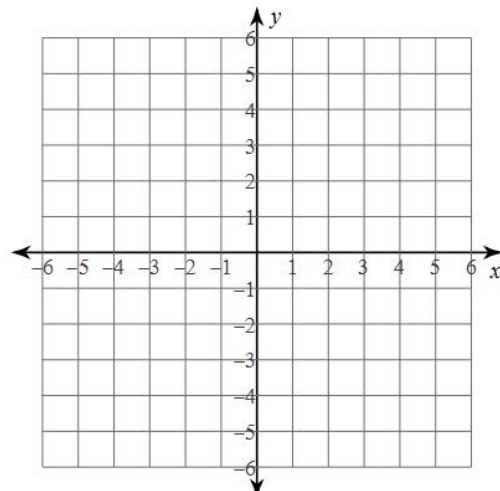
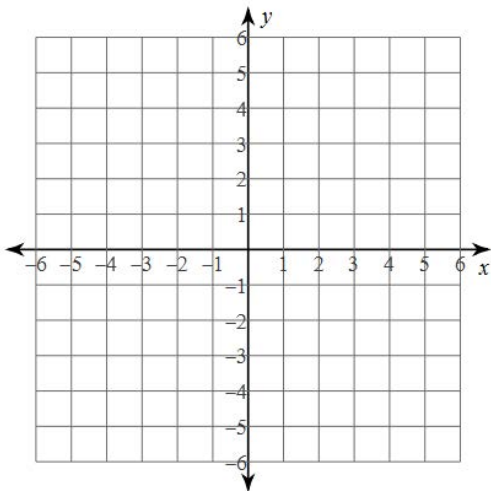
$y = -\frac{7}{3}x - 3$

A) (4, 3)

B) (3, 4)

C) (-3, 4)

D) (4, -3)



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7) The sum of three consecutive even numbers is 84. What is the smallest of these numbers?

- A) 26
- B) 28
- C) 30
- D) 24