

Quiz 26.3

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Divide.

1) $(16n^4 + 2n^3 + 2n^2) \div 4n^2$

A) $5n^3 + 2n^2 + \frac{2n}{3}$

B) $3n^2 + 4n + 2$

C) $\frac{n}{5} + 1 + \frac{3}{10n}$

D) $4n^2 + \frac{n}{2} + \frac{1}{2}$

2) $(3a^3 + 36a^2 + 5a) \div 9a$

A) $\frac{a^3}{10} + \frac{a^2}{2} + \frac{a}{10}$

B) $a^3 + \frac{a^2}{2} + 3a$

C) $a^2 + 4a + 1$

D) $\frac{a^2}{3} + 4a + \frac{5}{9}$

Factor the greatest common factor out of each expression.

3) $8a^2b^6 - 8a^3b^4 + 72a^2b^4$

A) $ab^4(b^2 - a + 9)$

B) $4a^2b^5(-a^2 + b + 9)$

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

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

4) $-42xy^6 + 18xy^3 + 12x^2y$

A) $6xy(-7y^5 + 3y^2 + 2x)$

B) $2xy(-7y^5 + 3y^2 + 2x)$

C) $6y(-7y^5 + 3y^2 + 2x)$

D) $6xy(-14y^6x + 6y^3x + 4x^2y)$

Solve each system by graphing.

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

$y = -\frac{5}{3}x + 4$

A) (3, -1)

B) (-3, 1)

C) (-3, -1)

D) No solution

6) $y = -\frac{1}{4}x + 1$

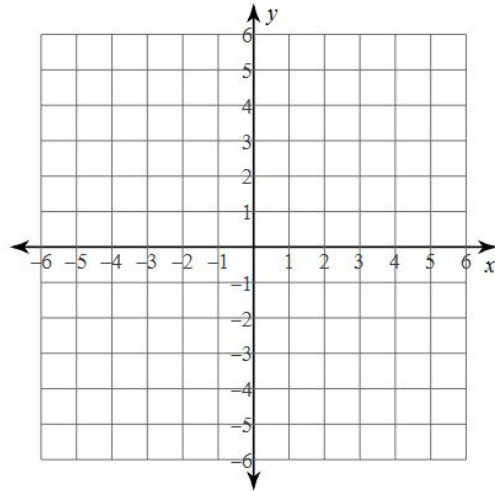
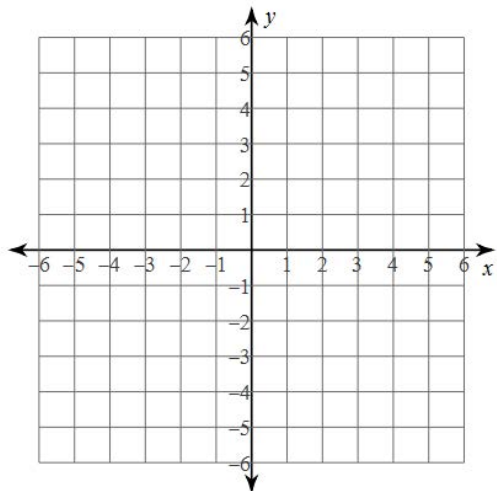
$y = -x - 2$

A) (-2, -4)

B) (4, -2)

C) (-4, -4)

D) (-4, 2)



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7) Ted had some candy to give to his five children. He first took three pieces for himself and then evenly divided the rest among his children. Each child received five pieces. With how many pieces did he start?

- A) 25 B) 27
C) 28 D) 20