Algebra 1 ECA Remediation Name_____

Quiz 26.1

Divide.

1) $(18n^4 + 3n^3 + 3n^2) \div 9n$

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

B) $4n + \frac{2}{9} + \frac{1}{3n}$

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

D) $2n^3 + \frac{n^2}{3} + \frac{n}{3}$

2) $(2n^7 + 16n^6 + 24n^5) \div 8n^3$

A) $2n^3 + 4n^2 + 5n$

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

C) $2 + \frac{3}{4n} + \frac{1}{2n^2}$

D) $2n + \frac{1}{4} + \frac{3}{8n}$

Factor the greatest common factor out of each expression.

3) $-60x^2y^7 - 70x^3y^5 + 100x^2y^4$

A) $10x^2y^4(-30y^4x - 35xy^2 + 50y)$
B) $10x^3y^4(-7x^2y - 6y^3 + 10)$
C) $10x^2y^4(-6y^3 - 7xy + 10)$
D) $10x^2y^4(-14xy - 12y^2 + 20)$

4) $8y - 72y^2x + 40yx^3$

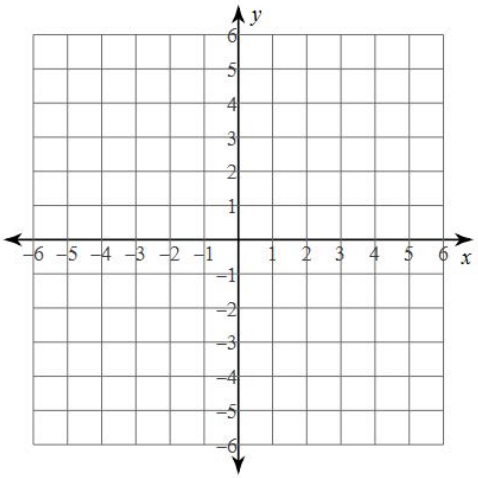
A) $24y(8y + 200x^3y - 72xy^2)$
B) $32y(1 + 5x^3 - 9y)$
C) $8y(1 - 9xy + 5x^3)$
D) $8y(5x^3 + y - 9xy)$

Solve each system by graphing.

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

$y = \frac{7}{4}x + 4$

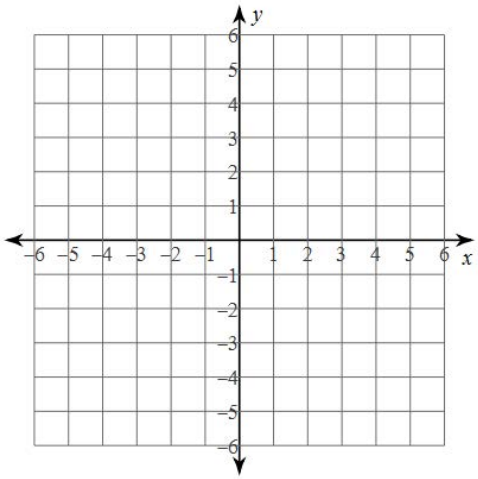
A) $(-4, 1)$ B) $(4, 1)$
C) $(1, 4)$ D) $(-4, -3)$



6) $y = 3x - 4$

$y = -\frac{1}{2}x + 3$

A) $(2, 2)$ B) $(-2, 2)$
C) $(-2, -2)$ D) No solution



Quiz 26.1

7) Beth sold half of her comic books and then bought twelve more. She now has 23. With how many did she begin?

A) 58 B) 22
C) 34 D) 46