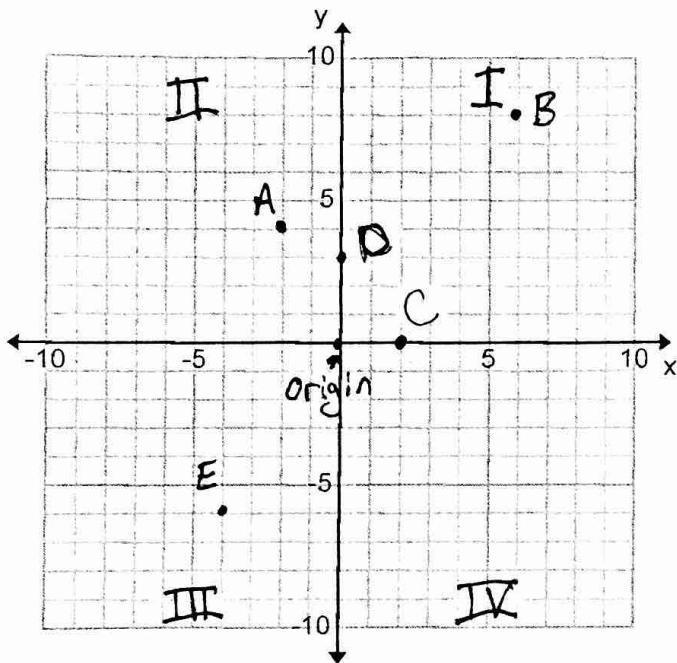


Factor the following.

1. $9x^2 - 21x$ $3x(3x-7)$ 2. $15x^2 + 20x$ $5x(3x+4)$ 3. $12x^2 + 28x$ $4x(3x+7)$
 4. $15x^4 - 24x^2$ $3x^2(5x^2-8)$ 5. $24x^4 - 18x$ $6x(4x^3-3)$ 6. $12x^3 + 6x^2 - 30$ $6(2x^3 + x^2 - 5)$
 7. $4x^4 - 22x^2 + 18x$ $2x(2x^3 - 11x + 9)$ 8. $21x^5 + 35x^3 + 49x^2$ 9. $2x - 8$ $2(x-4)$
 10. $12x^2 + 10$ $2(6x^2 + 5)$ 11. $3x^2 + 9$ $3(x^2 + 3)$ 12. $8 - 18x^2$ $2(4 - 9x^2)$
 13. $12x^3 + 27$ $3(4x^3 + 9)$ 14. $6x^2 - 10$ $2(3x^2 - 5)$ 15. $20 + 28x$ $4(5 + 7x)$
 16. $35x^3 + 15$ $5(7x^3 + 3)$

8. $7x^2(3x^3 + 5x + 7)$

17. Given the following graph label the quadrants, the origin and graph the following points listed.



- A) (-2, 4)
 B) (6, 8)
 C) (2, 0)
 D) (0, 3)
 E) (-4, -6)

18. Given $y = 4x - 2.1$ answer the following questions:

a. When $x = 5$, $y = ?$ 17.9

b. When $y = 10.9$, $x = ?$ 3.25

19. Given $2y - x = 9$ answer the following questions:

a. When $x = 4$, $y = ?$ 6.5

b. When $y = -2$, $x = ?$ -13

20. Given $y + 2x = 8$, fill in the following chart.

X	Y
-5	18
-2	12
3	2
5.5	-3

21. For the following chart find the equation & fill in the blanks

X	Y
-3	3.4
-1	3.8
0	4
2.5	9

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{3.8 - 3.4}{-1 - -3} = \frac{.4}{2}$
 $y = .2x + 4$