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9 November 2018

Distribute or factor each expression.

Factoring Fridays

1. $x(x+5)$

2. $(x+1)(x+2)$

3. $(x-2)(x+3)$

4. $(x+1)(x+4)$

5. $(x+2)(x+3)$

Factor each expression

6. x^2+3x

7. x^2+6x+5

8. x^2+3x+2

9. x^2+5x+6

10. $x^2+7x+10$

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11. Given $f(x) = 3x + 1$. Simplify $f(2)$.

12. Find $g(x) = 2x - 3$ for $x = 4$.

13. Given $h(x) = \dfrac{x+3}{11}$. Evaluate the expression $h(8)$.

14. For a circle, $A = \pi r^2$. Find the area, A, for $r = 3$ in terms of π.

15. For a square, $A = s^2$. Find the area of a square, A, with $s = 1.5$

16. For a rectangle, $A = l \times w$. Calculate A when $l = 4$ and $w = 3.5$

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Solve for the value of x.

17. $6x = 12$

18. $2x = 4\pi$

19. $3(2x - 4) = 3(x + 2) + 3$

20. $2x - 5 = \frac{1}{3}(12 - 3x)$

21. $x = \frac{1}{3}x + 6$

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Combine like terms

22. $x^2 + 2x - 6 - 2x^2 - x + 14$

23. $5(a^2 - 2a + 3) - 2(2a^2 - 5a - 4)$

24. $x^2 + 2xy - y^2 + 3x^2 - xy + 4y^2$

What is the slope and y-intercept of each equation?

25. $y = -2x - 3.5$

26. $2y = 8x + 4$

27. $9x - 3y = 6$

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Apply the distributive property

28. $x(x+5)$

29. $3x(x^2-2x+11)$

30. $x(x^2-4x+5)+21$

31. $(x+1)(x+3)$

32. $(x+2)(x+3)$

33. $(x+1)(x+4)$