

Warm Up

$$\underline{(x + 5)(x - 3)(x + 2)}$$

	x	-3	
x	x^2	$-3x$	
5	$5x$	-15	\rightarrow

$x^2 + 2x - 15$

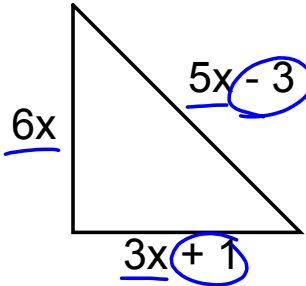
	x^2	$2x$	-15	
x	x^3	$2x^2$	$-15x$	
2	$2x^2$	$4x$	-30	

$x^3 + 4x^2 - 11x - 30$

Homework Questions?

Find Area & Perimeter

Use Formula \rightarrow Add Sides



$P = 6x + 5x - 3 + 3x + 1$
 $P = 14x - 2$

$A_{\Delta} = \frac{1}{2}bh$

$A = \frac{1}{2}(3x+1)(6x)$
 $= 3x(3x+1)$
 $A = 9x^2 + 3x$

$\frac{1}{2}(3x+1)(6x)$
 $\frac{18x^2 + 6x}{2} = 9x^2 + 3x$

10.2 p.587 # 18-46even

&

Perimeter/Area wkst

18. $(2x - 5)(-4x)$

19. $3t^2(7t - t^3 - 3)$

20. $2x(x^2 - 8x + 1)$

21. $(-y)(6y^2 + 5y)$

22. $4w^2(3w^3 - 2w^2 - w)$

23. $-b^2(6b^3 - 16b + 11)$

DISTRIBUTIVE PROPERTY Use the distributive property to find the product.

24. $(t + 8)(t + 5)$

25. $(2d + 3)(3d + 1)$

26. $(4y^2 + y - 7)(2y - 1)$

27. $(3s^2 - s - 1)(s + 2)$

28. $(a^2 + 8)(a^2 - a - 3)$

29. $(x + 6)(x^2 - 6x - 2)$

USING THE FOIL PATTERN Use the FOIL pattern to find the product.

30. $(4q - 1)(3q + 8)$

31. $(2z + 7)(3z + 2)$

32. $(x + 6)(x - 6)$

33. $(2w - 5)(w + 5)$

34. $(x - 9)(2x + 15)$

35. $(5t - 3)(2t + 3)$

MULTIPLYING EXPRESSIONS Find the product.

36. $(d - 5)(d + 3)$

37. $(4x + 1)(x - 8)$

38. $(3b - 1)(b - 9)$

39. $(9w + 8)(11w - 10)$

40. $(11t - 30)(5t - 21)$

41. $(9.4y - 5.1)(7.3y - 12.2)$

42. $(3x + 4)\left(\frac{2}{3}x + 1\right)$

43. $\left(n + \frac{6}{5}\right)(4n - 10)$

44. $\left(x + \frac{1}{8}\right)\left(x - \frac{9}{8}\right)$

45. $(2.5z - 6.1)(z + 4.3)$

46. $(t^2 + 6t - 8)(t - 6)$

47. $(-4s^2 + s - 1)(s + 4)$