Squaring a Binomial

MATH MONKS

Formulae: $(a + b)^2 = a^2 + 2ab + b^2$, $(a - b)^2 = a^2 - 2ab + b^{2t}$

Find the product.

1. $(x + 2)^2$

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

3. $(-5x - 2)^2$

4. $(2x + \frac{3}{4})^2$

5. $(2km + 3ab)^2$

6. $(5xy - 7)^2$

7. $(4x + \frac{1}{3})^2$

8. $(y + \frac{2}{5})^2$

9. $(-5p + 6)^2$

10. $(9n - 10)^2$

11. $(-t - 2)^2$

12. $(s + 5)^2$

Squaring a Binomial

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Answers

1. $(x + 2)^2$

$x^2 + 4x + 4$

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

$49x^2 + 42x + 9$

3. $(-5x - 2)^2$

$25x^2 + 20x + 4$

4. $(2x + \frac{3}{4})^2$

$4x^2 + 3x + \frac{9}{16}$

5. $(2km + 3ab)^2$

$4k^2m^2 + 12kmab + 9a^2b^2$

6. $(5xy - 7)^2$

$25x^2y^2 - 70xy + 49$

7. $(4x + \frac{1}{3})^2$

$16x^2 + \frac{8x}{3} + \frac{1}{9}$

8. $(y + \frac{2}{5})^2$

$y^2 + \frac{4y}{5} + \frac{4}{25}$

9. $(-5p + 6)^2$

$25p^2 - 60p + 36$

10. $(9n - 10)^2$

$81n^2 - 180n + 100$

11. $(-t - 2)^2$

$t^2 + 4t + 4$

12. $(s + 5)^2$

$s^2 + 10s + 25$