



פישוט איברים - פתרונות

קורס פסיכומטרי

1. $4x + 6y = 2(2x + 3y)$
2. $12xy - 15x + 6yx = 12xy - 15x + 6xy = 18xy - 15x = 3x(6y - 5)$
3. $8x^2 - 12xy + 4x^3 = 4x(2x - 3y + x^2)$
4. $(3 + 2x) \cdot (2 + 3x) = 3 \cdot 2 + 3 \cdot 3x + 2x \cdot 2 + 2x \cdot 3x = 6 + 9x + 4x + 6x^2 = 6x^2 + 13x + 6$
5. $(x - \frac{4}{5})(x + \frac{4}{5}) = x^2 - \left(\frac{4}{5}\right)^2 = x^2 - \frac{16}{25}$
6. $a^2 + 24a + 144 = (a + 12)^2$
7. $\frac{6x^2 + 15xy}{3x} = \frac{3x(2x + 5y)}{3x} = \frac{\cancel{3x}(2x + 5y)}{\cancel{3x}} = 2x + 5y$
8. $\frac{3x - 48}{(x - 16)^2} = \frac{3(\cancel{x - 16})}{(\cancel{x - 16})^2} = \frac{3}{(x - 16)}$
9. $\frac{2x^2 + 36x + 162}{x + 9} = \frac{2(x^2 + 18x + 81)}{x + 9} = \frac{2(\cancel{x + 9})^2}{\cancel{x + 9}} = 2(x + 9) = 2x + 18$
10. $\frac{x^2 - 0.25}{x + 0.5} = \frac{x^2 - (0.5)^2}{x + 0.5} = \frac{(x - 0.5)(\cancel{x + 0.5})}{\cancel{x + 0.5}} = x - 0.5$