

Factoring – Binomial Factors Worksheet Answers

Factor :

1. $x(x - 5) + 10(x - 5) = (x + 10)(x - 5)$

2. $m(m + 8) - 3(m + 8) = (m - 3)(m + 8)$

3. $-6(2 + x) + x(2 + x) = (-6 + x)(2 + x)$

4. $x(y + 5) - 3(y + 5) = (x - 3)(y + 5)$

5. $2a(-3b + 4) - 7b(-3b + 4) = (2a - 7b)(-3b + 4)$

6. $ab - 6a + 4b - 24 =$

$$a\left(\frac{ab}{a} - \frac{6a}{a}\right) + 4\left(\frac{4b}{4} - \frac{24}{4}\right) = a(b - 6) + 4(b - 6)$$

$$= (a + 4)(b - 6)$$

7. $xy + 5x - 3y - 15 =$

$$x\left(\frac{xy}{x} + \frac{5x}{x}\right) - 3\left(\frac{-3y}{-3} + \frac{-15}{-3}\right) = x(y + 5) - 3(y + 5)$$

$$= (x - 3)(y + 5)$$

8. $mn + n^2 - 7m - 7n =$

$$n\left(\frac{mn}{n} + \frac{n^2}{n}\right) - 7\left(\frac{-7m}{-7} + \frac{-7n}{-7}\right) = n(m + n) - 7(m + n)$$

$$= (n - 7)(m + n)$$