

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

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

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