

1. $(8c - 3)^2 =$

2. $(13w + 9)(13w - 9)$

Factor each.

3. $24k^2 - 42k$

4. $24R^3 - 12R^2 + 3R$

5. $12x^3y^2 - 24x^2y^3 + 20xy^4$

6. $w^2 - 100$

7. $81G^6 - 289$

8. $\frac{1}{25}k^2 - \frac{4}{9}m^2$

9. $3N^2 - 192$

10. $20p^5 - 245p^3$

1. $(8c - 3)^2 =$

$$64c^2 - 48c + 9$$

2. $(13w + 9)(13w - 9)$

$$169w^2 - 81$$

Factor each.

3. $24k^2 - 42k$

$$6k(4k - 7)$$

4. $24R^3 - 12R^2 + 3R$

$$3R(8R^2 - 4R + 1)$$

5. $12x^3y^2 - 24x^2y^3 + 20xy^4$

$$4xy^2(3x^2 - 6xy + 5y^2)$$

6. $w^2 - 100$

$$(w + 10)(w - 10)$$

7. $81G^6 - 289$

$$(9G^3 - 17)(9G^3 + 17)$$

8. $\frac{1}{25}k^2 - \frac{4}{9}m^2$

$$\left(\frac{1}{5}k + \frac{2}{3}m\right)\left(\frac{1}{5}k - \frac{2}{3}m\right)$$

9. $3N^2 - 192$

$$3(N^2 - 64)$$

$$= 3(N + 8)(N - 8)$$

10. $20p^5 - 245p^3$

$$5p^3(4p^2 - 49)$$

$$= 5p^3(2p + 7)(2p - 7)$$