

Name: .....

## Factoring Special Polynomials

1  $25r^2 - 36$

2  $9a^2 - 25b^2$

3  $16b^2 - 40b + 25$

4  $p^2 - 36$

5  $98p^2 - 200$

6  $10r^2 + 100r + 250$

7  $10q^3 - 1690q$

8  $5k^2 - 30k - 135$

9  $s^2 - 175 + 70$

10  $2x^2 - 36x + 162$

11  $18m^2 - 24mn + 8n^2$

12  $32l^3 - 108n^3$

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## Factoring Special Polynomials

### Answers

1  $25r^2 - 36$

$(5r + 6)(5r - 6)$

3  $16b^2 - 40b + 25$

$(4b - 5)^2$

5  $98p^2 - 200$

$2(7p + 10)(7p - 10)$

7  $10q^3 - 1690q$

$10q(q + 13)(q - 13)$

9  $s^2 - 175 + 70$

$s^2 - 105$

11  $18m^2 - 24mn + 8n^2$

$2(3m - 2n)^2$

2  $9a^2 - 25b^2$

$(3a + 5b)(3a - 5b)$

4  $p^2 - 36$

$(p + 6)(p - 6)$

6  $10r^2 + 100r + 250$

$10(r + 5b)^2$

8  $5k^2 - 30k - 135$

$5(k + 3)(k - 9)$

10  $2x^2 - 36x + 162$

$2(x - 9)^2$

12  $32l^3 - 108n^3$

$4(2l - 3n)(4l^2 + 6ln + 9n^2)$