

Name : _____

Score : _____

Teacher : _____

Date : _____

Factoring Quadratics

Factor each completely. If non-factorable, write "Non-factorable".

1) $5y^4 - 10y^3 + 5y^2$

6) $w^2 - 8w + 16$

2) $s^2 + 4s + 4$

7) $8c^2 - 40c + 50$

3) $9b^4 - 48b^3 + 64b^2$

8) $4k^4 - 12k^3 + 9k^2$

4) $3d^4 - 12d^3 + 12d^2$

9) $6z^4 + 36z^3 + 54z^2$

5) $q^2 - 6q + 9$

10) $c^4 + 8c^3 + 16c^2$



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Factoring Quadratics

Factor each completely. If non-factorable, write "Non-factorable".

1) $5y^4 - 10y^3 + 5y^2$
 $5y^2(y - 1)^2$

6) $w^2 - 8w + 16$
 $(w - 4)^2$

2) $s^2 + 4s + 4$
 $(s + 2)^2$

7) $8c^2 - 40c + 50$
 $2(2c - 5)^2$

3) $9b^4 - 48b^3 + 64b^2$
 $b^2(3b - 8)^2$

8) $4k^4 - 12k^3 + 9k^2$
 $k^2(2k - 3)^2$

4) $3d^4 - 12d^3 + 12d^2$
 $3d^2(d - 2)^2$

9) $6z^4 + 36z^3 + 54z^2$
 $6z^2(z + 3)^2$

5) $q^2 - 6q + 9$
 $(q - 3)^2$

10) $c^4 + 8c^3 + 16c^2$
 $c^2(c + 4)^2$

