

Algebra 1 Bellwork

Tuesday, May 3, 2016

Factor each completely.

1. $c^2 - 225$

2. $49m^8 - 16p^6$

3. $g^4 - 16$

4. $24b^3 - 150b$

5. $c^2 - 22c + 121$

6. $81w^2 - 72w + 16$

7. $3k^3 - 54k^2 + 243k$

Algebra 1 Bellwork

Tuesday, May 3, 2016

Answers

Factor each completely.

1. $c^2 - 225$

$= (c \pm 15)$

2. $49m^8 - 16p^6$

$(7m^4 \pm 4p^3)$

3. $g^4 - 16 = (g^2 + 4)(g^2 - 4)$

$\downarrow$
 $(g^2 + 4)(g \pm 2)$

4. $24b^3 - 150b$

$6b(4b^2 - 25) \rightarrow 6b(2b \pm 5)$

5. $c^2 - 22c + 121$

$(c - 11)^2$

6. $81w^2 - 72w + 16$

$(9w - 4)^2$

7. $3k^3 - 54k^2 + 243k$

$3k(k^2 - 18k + 81) \rightarrow 3k(k - 9)^2$