5-Minute Check

(over Lesson 9-5)

Transparency 9-6

BE-1B TUES. 12-12-06

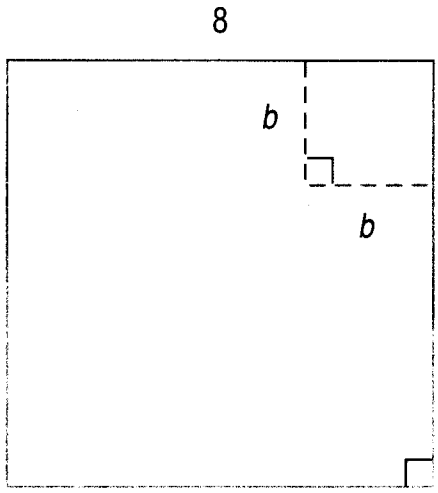
Factor each polynomial, if possible. If the polynomial cannot be factored, write *prime*.

1. $x^2 - 121$
2. $-36x^2 + 1$

Solve each equation by factoring.

3. $4c^2 = 49$
4. $25x^3 - 9x = 0$

5. A square with sides of length b is removed from a square with sides of length 8. Write an expression to compare the area of the remaining figure to the area of the area of the original square.



6. **Standardized Test Practice** Which of the following is *not* a solution of $x^3 = \frac{1}{4}x$?

(A) $\frac{1}{16}$ (B) $\frac{1}{2}$ (C) 0 (D) $-\frac{1}{2}$

ANSWERS

1. $(x + 11)(x - 11)$
2. $(1 + 6x)(1 - 6x)$
3. $\left\{-\frac{7}{2}, \frac{7}{2}\right\}$
4. $\left\{-\frac{3}{5}, 0, \frac{3}{5}\right\}$
5. $\frac{64 - b^2}{64}$
6. A