

## 10

NAME \_\_\_\_\_ DATE \_\_\_\_\_

## Chapter 10 Review

## Rewind / Fast Forward

“Rewind” by factoring each polynomial completely. Then cross off the answer in the right column. “Fast forward” by multiplying your answer to check it. The letters that are left will spell an outdated technology.

**Rewind**

1.  $18x - 9xy$

2.  $4x^3 + 6x$

3.  $x^2 - 64$

4.  $x^2 - 16$

5.  $2x^2 - 32$

6.  $x^2 + 6x + 8$

7.  $x^2 - 6x + 8$

8.  $x^2 + x - 12$

9.  $x^2 - x - 12$

10.  $x^2 + 2x + xy + 2y$

11.  $xy + 4y - x^2 - 4x$

12.  $4x + 8y + x^2 + 2xy$

**Fast Forward**

|                   |   |
|-------------------|---|
| $(x + 2)(y + 1)$  | E |
| $(x - 3)(x + 4)$  | N |
| $(x - 4)(x + 3)$  | D |
| $(x - 4)(x - 2)$  | W |
| $(x - 4)(x - 4)$  | I |
| $(x - 4)(x + 4)$  | N |
| $(x - 8)(x - 8)$  | G |
| $(x - 8)(x + 8)$  | S |
| $(x + 2)(x + 4)$  | P |
| $(x + 2)(y - x)$  | H |
| $(x + 2)(x + y)$  | A |
| $(x + 4y)(x - 2)$ | T |
| $(x + 4)(y - x)$  | I |
| $(x + 4)(x + 2y)$ | O |
| $2(2x^2 + 3x)$    | T |
| $2(x - 4)(x + 4)$ | S |
| $2(x + 8)(x - 8)$ | R |
| $2(x^2 + 16)$     | A |
| $2x(2x^2 + 3)$    | O |
| $3x(6 - 3y)$      | C |
| $9x(2 - y)$       | E |
| $9x(2 - xy)$      | K |

Answers are located on page 112.