

Divide the Polynomials

Name: \_\_\_\_\_

### Divide

#### Worksheet # 1 Answers

1.  $3x + 3 \frac{3}{8x}$
2.  $4x^2 + \frac{x^3}{2} + \frac{x^2}{4}$
3.  $3x^3 + b^2 + x$
4.  $\frac{x}{2} + 2 \frac{3}{x}$
5.  $x + 5 - \frac{3}{x + 4}$
6.  $x + 5 + \frac{4}{x - 4}$
7.  $x - 5 - \frac{3}{x - 1}$
8.  $x + 4 - \frac{4}{x - 5}$
9.  $2x - 2 - \frac{4}{x - 3}$
10.  $2x - 3 + \frac{1}{x + 4}$

#### Worksheet # 3 Answers

1.  $x + 3 + \frac{4}{x - 5}$
2.  $4x^2 + 3x + \frac{1}{2}$
3.  $\frac{x}{10} + \frac{1}{2} + \frac{2}{5x}$
4.  $x + \frac{1}{5} + \frac{1}{2x}$
5.  $\frac{2x^2}{5} + \frac{x}{2} + 2$
6.  $3x + 2 + \frac{1}{4x}$
7.  $x + \frac{3}{4} + \frac{2}{2x}$
8.  $\frac{x}{2} + 2 + \frac{1}{2x}$
9.  $5x - \frac{1}{2} + \frac{2}{x}$
10.  $\frac{x}{10} + \frac{1}{2} + \frac{2}{5x}$

#### Worksheet # 2 Answers

1.  $x - 5 + \frac{3}{b - 3}$
2.  $x + 1 + \frac{2}{x + 4}$
3.  $x + 3 + \frac{5}{x + 1}$
4.  $x - 5 + \frac{5}{x + 2}$
5.  $x + 3 - \frac{5}{x + 5}$
6.  $4x + 4 + \frac{1}{x + 5}$
7.  $x + 1 - \frac{1}{x - 2}$
8.  $4x - 5 + \frac{2}{x + 2}$
9.  $x + 4 - \frac{1}{x - 2}$
10.  $x - 5 - \frac{1}{x + 4}$

#### Worksheet # 4 Answers

1.  $x - 1 + \frac{3}{x - 7}$
2.  $x + 6 - \frac{2}{x - 5}$
3.  $2x + 7 + \frac{3}{x + 6}$
4.  $x - 7$
5.  $x - 7 - \frac{1}{x + 4}$
6.  $x + 8 - \frac{8}{x + 7}$
7.  $x + 7 + \frac{4}{x + 6}$
8.  $x - 4 - \frac{2}{x + 8}$
9.  $x + 7 - \frac{5}{x + 4}$
10.  $x + 6 - \frac{7}{x + 3}$