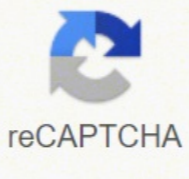
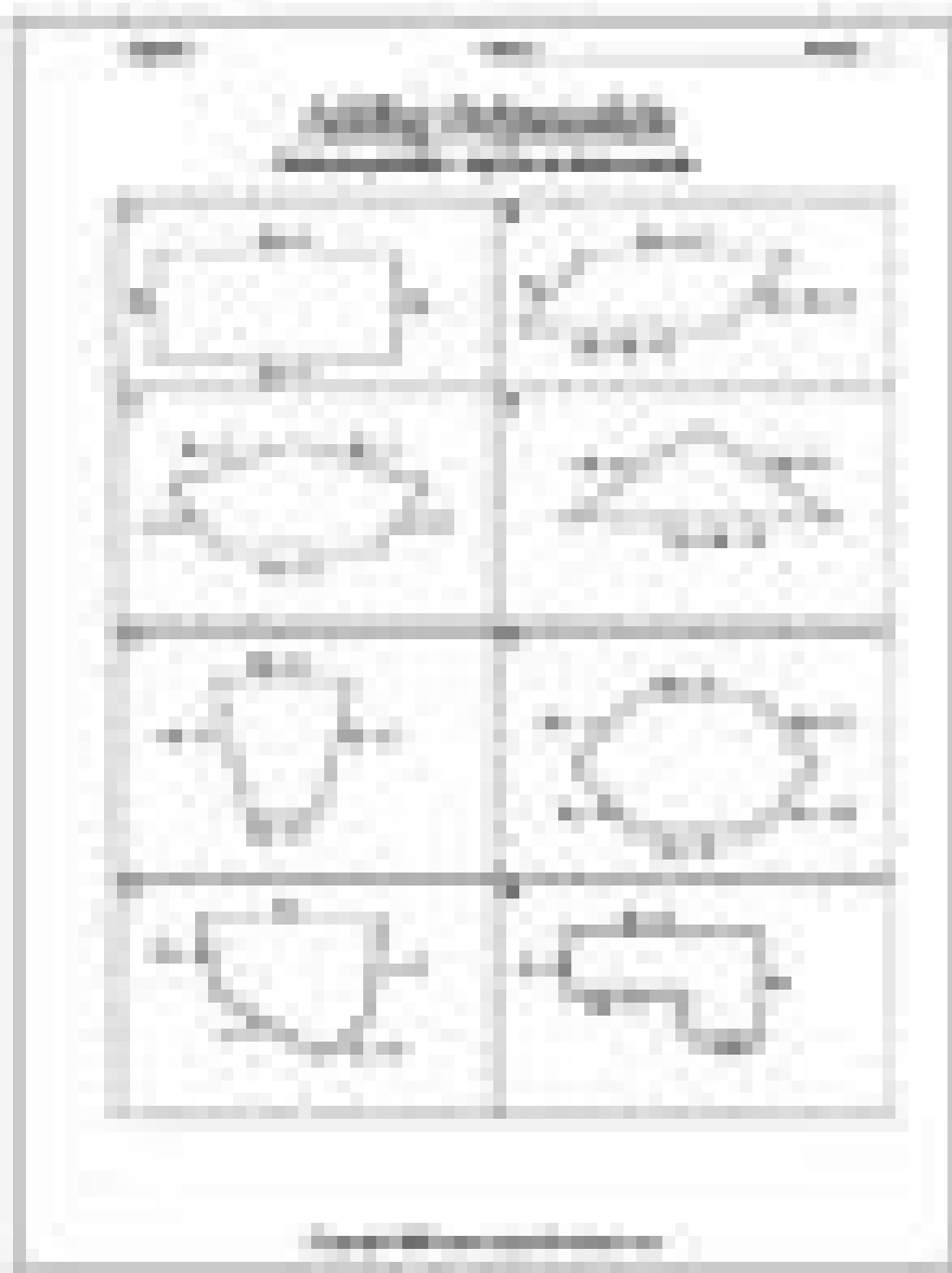




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**Exercise Set 3.1: An Introduction to Polynomial Functions**

- For each of the following polynomial functions,
- classify the function as linear, quadratic, or cubic;
  - find the  $x$ - and  $y$ -intercepts of the function; also state algebraically whether the graph opens up or down, if it is a parabola;
  - find  $f(0)$ ,  $f(-1)$ , and  $f(2)$ .
- $f(x) = x^2 + 10x$
  - $f(x) = 3x + 9$
  - $f(x) = 5x - 4x^2$
  - $f(x) = 3x - 2x^2$
  - $f(x) = 4x^2 - 8x$
  - $f(x) = 2x^2 - 10x$
- Follow the directions above for exercises A1 and A2, but in part (a), find the  $x$ -intercepts; also state what the graph opens.
- $f(x) = x^2 + 10x + 16$
  - $f(x) = 4x^2 + 12x + 9$

Polynomial	Degree	Number of Terms	Name
$10x^3 + 4x^2 + x - 4$	3 (from the $x^3$ )	4	Cubic Polynomial
$t(t^3 + t) - t^2 + t^2$	4 (from the $t^4$ )	2	Quartic Binomial
8	0 (no variables)	1	Constant Monomial
$\frac{(x+4)}{2} + \frac{xy}{\sqrt{3}} + 3$	2 (from the $xy$ )	3	Quadratic Trinomial
$4x^3y^4 + 2x^2y + xy + x + y - 4$	7 (from the $x^3y^4$ )	6	Polynomial of Degree 7
$x(x+4)^2(x-3)^2$	8 (add up the exponents: $1 + 2 + 5 = 8$ ).	(Difficult to say unless multiply out)	(Difficult to say unless multiply out)

Multiplying Monomials

Multiply the following.

1)  $\frac{2}{3}p^3 \times \frac{1}{3}p^4$

2)  $-2y \times \frac{5}{6}y \times 9y$

3)  $7 \times -6s^7 \times -2s^6$

4)  $-\frac{3}{4} \times -32t^2$

5)  $\frac{4}{9}n^5 \times \frac{18}{5}n^5$

6)  $3r^3 \times -3r^5$

7)  $-14g \times \frac{1}{8}g^3$

8)  $\frac{9}{4}z^5 \times \frac{4}{27}z^2 \times \frac{1}{2}z^2$

9)  $-\frac{5}{7}q^4 \times -\frac{7}{5}q^6$

10)  $6v^2 \times -8v^7$

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

Date: \_\_\_\_\_

"Worksheet: Identifying Types of Triangles"

PART I: Match the name of the triangle with the triangle shown.

\_\_\_ Isosceles

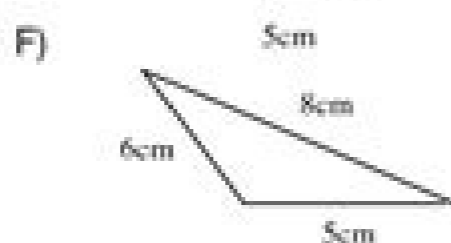
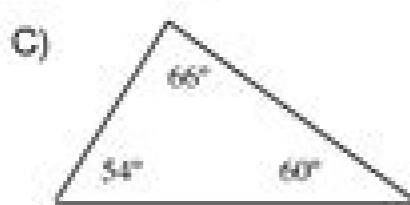
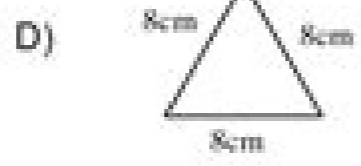
\_\_\_ Equilateral

\_\_\_ Scalene

\_\_\_ Acute

\_\_\_ Right

\_\_\_ Obtuse



Part II: Use the information above to answer the following: If you were given the measurements of the angles and the sides of the triangles above, what two labels can you give to each triangle below?

Triangle A \_\_\_\_\_  
Triangle D \_\_\_\_\_  
Triangle E \_\_\_\_\_  
Triangle F \_\_\_\_\_

PART III: Identify the type of triangle based on the following information

- A triangle with all sides and angles congruent \_\_\_\_\_
- A triangle with no sides congruent \_\_\_\_\_
- A triangle with one angle 91° \_\_\_\_\_
- A triangle with angles 103°, 20°, 57° \_\_\_\_\_
- A triangle with sides 11cm, 15cm, 11cm \_\_\_\_\_

PART IV: Design a right triangle that is also scalene. Do this design without using a protractor and only with a ruler.

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