**Classifying Polynomials Quiz /20**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

**\_\_\_\_ 1.** (1 point) Which expression represents the area of the shaded region? Show your work.



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **A.** | $$4r^{2}-2πr$$ | **B.** | $$r^{2}-πr^{2}$$ | **C.** | $$4r^{2}-πr^{2}$$ | **D.** | $$r^{2}-2πr$$ |

**Short Answer**

 **2.** (4 points) Name the coefficients, variable, degree, and constant term in the polynomial .

 **3.** (5 points) Is each expression a monomial, binomial, or trinomial?

a) 

b) 5*x*2

c) 

d) 

e) 

 **4.** (1 point) From the list, which terms are like 5*x*?

5*x*2, 6*x*, 6, 9*x*, 5*x*, 9*x*2, 5

 **5.** (1 point) Simplify: 

 **6.** (1 point) Add: 

 **7.** (1 point) Subtract: 

 **8.** (1 point) Multiply: 

 **9.** (1 point) Determine the product: 

 **10.** (4 points) a) Write the perimeter of this trapezoid as a polynomial in simplest form.

b) Determine the perimeter of the trapezoid when *x* = 3.

 Show your work.

