

## Two Truths and a Lie – Student Work

1. 1.) 2 odd numbers always make an even number  
 2.) 1 even and 1 odd number will always make an odd number.  
 3.) 2 odd numbers always make an odd number

2. 1.)  $x^2 \cdot x^2 = x^4$   
 2.)  $x^5 + x^5 = x^{10}$   
 3.)  $(x^2)^4 = x^8$

3. 1.  $\sqrt{\frac{28y^5}{7y^2}} = 2y\sqrt{y}$   
 2.  $\sqrt{\frac{2m}{25m^5}} = \frac{\sqrt{2}}{5m^2}$   
 3.  $9a^2 + 12a + 4 = (3a+2)^2$

4. 1.  $|r+2| = 2$   
 $r = 0 \quad r = -4$

2.  $-2|3d| = 4$   
 $3d = -2$

3.  $xp + yp = 2$   
 $p = \frac{2}{x+y}$

5. 1.) square = rectangle  
 2.) rectangle = square  
 3.) rectangle =  $360^\circ$

6. 1.)  $\sqrt{15} = 3.87298$   
 2.)  $4^\circ = 1$   
 3.)  $\sqrt{19} = 4.358898944$