**MULTIPLYING RADICALS**

There are rules that can be used to work with radicals.

  =     =     =  

examples: Simplify

a)  b) 

exercises: Simplify

a)  b) 

c) $\sqrt{24}×\sqrt{20}$ d) 

**MULTIPLYING RADICAL EXPRESSIONS**

Multiplying a monomial by a polynomial: use the Distributive Property (“FOIL”):

3*x* (*x* + 5*y* + 2) simplifies to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Multiplying a radical term by a sum of terms: use the Distributive Property also.

example: Simplify  ( +  + 2)

* Use the Distributive Property

* Multiply

exercise: Simplify  ( − )

Multiplying a binomial by a binomial: use the Distributive Property (“FOIL”):

(*a* + *b*)(*c* + *d*) becomes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Multiplying a radical binomial by a radical binomial: use the Distributive Property.

example: Simplify 

* Distribute

* Multiply

 HW: p. 289 #1-5, 12, 21, 23, 25

exercise: Simplify 

exercise: Simplify 

exercise: Simplify 