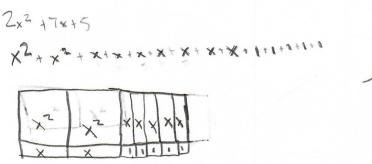
Name: Abbra Dany 11 Date: 12/3/202

Read all directions carefully. Watch out for simple, careless errors. Make sure all figures are labeled appropriately.

Please indicate all answers clearly so they are easy to locate. Show ALL work you have done to receive full credit for your answer.

1) (5 pts.) Draw a rectangle using algebra tiles for the expression  $2x^2 + 7x + 5$ . Sketch your rectangle and write the area as a sum and as a product.



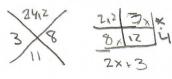
5 /2 (x+1)(2x+5)

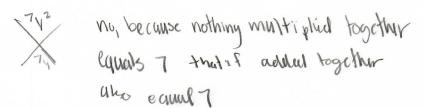
2) (3 pts.) Multiple Choice: The quadratic expression  $6x^2 + 6x - 12$  has several possible sets of factors. Which set of factors below is not a possible answer? Explain how you know.

a. 6(x-1)(x+2) b. (6x-6)(x+2) C becomes it is the only set of c. (x-6)(6x+2) d. (3x-3)(2x+4) factors that outputs  $6x^2-34y-12$  6x(x+2)-6(x+2)  $6x^2+12x-6x-12$   $6x^2+12x-6x-12$   $6x^2+12x-6x-12$   $6x^2+12x-6x-12$   $6x^2-34y-12$   $6x^2+12x-6x-12$   $6x^2-34y-12$   $6x^2+12x-6x-12$ 3) (8 pts) Factor the following quadratics if possible. If a quadratic cannot be factored, explain why

- $2x^2 11x + 12$ a.

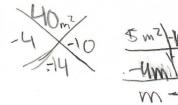
 $y^2 + 7y + 7$ 





2×+3)(x+4)

3(502-0) -> 3 (50-1)00



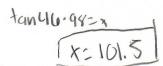
(m-2/5m-4)

Name:	
Date:	Pd.

4) (5 pts.) Solve for the missing side length. Show your work. Round lengths to the nearest tenth.



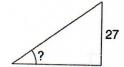
tan46= X



5) (5 pts.) Use trigonometric ratios to solve for the variable. Show your work. Round lengths to the nearest tenth.



6) (3 pts.) Solve for the missing angle. Show your work.



$$\frac{27}{38} = \tan \theta$$
  
 $\tan^{-1}(\frac{27}{38}) = |35.4|$ 

7) (3 pts.) Solve for the missing angle. Show your work.



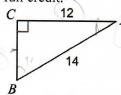
## Ch.4 Factoring + Trig Test Version 3

Name: Date: Pd.

8) (3 pts.) Solve for the missing angle. Show your work.



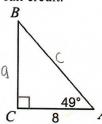
9.) (6 pts.) Solve the triangle for all missing side lengths and angle measures. Show your work to receive full credit.



$$\angle A = \underline{Sq^6}$$

$$a = 7.21$$

10) (6 pts) Solve the triangle for all missing side lengths and angle measures. Show your work to receive full credit.



$$\angle B = 5$$

$$a = 0.2$$

$$c = 17.2$$

Ch.4	Factoring	+ Trig	Test '	Version	3
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Date:	Pd.		

Bonus) (4 pts) Factor each of the expressions below, if possible. Show your work.

a.  $169x^2 - 289$ c.  $16x^2 - 8x + 1$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$   $| (x^2 - 4x - 4x + 1) |$  | (x

a. 
$$169x^2 - 289$$

c. 
$$16x^2 - 8x + 1$$

$$(13x-17)(13x+17)$$
  $(4x-1)^2$ 

b. 
$$x^2 + 10x + 25$$
 d.  $x^2 - \frac{1}{4}$ 

$$x^2 - \frac{1}{4}$$

$$545=10$$
  $x^{2}+3x+5x+25$   
 $5x5=25$   $(x+5)^{2}$