http://youtu.be/OFSrINhfNsQ

http://youtu.be/hHfUu4RaVrE

How many solutions does this graph have? x= 0 x= 0

Quad. x²5 2 Solutions -10 -8 -6 -4 -2 2 4 6 8 10

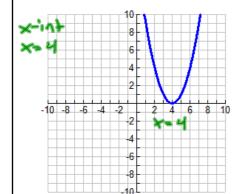
What are the factors?

(x)(x)

Write the polynomial function.

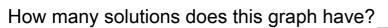
Y=X parent





What are the factors?

Write the polynomial function.



2

What are the factors?

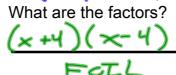
$$\frac{(x-2)(x+2)}{FoII}$$

Write the polynomial function.

How many solutions does this graph have?



×=-4 ×=4



Write the polynomial function.

What conclusion can you make about the functions and their factors?

(x+5)(x-5) what happens? ** middle terms Cancel out

$$36x^{2} - 49$$

$$(6x+7)(6x-7)$$

$$27x^{2} - 25$$

$$(3x-5)(3x+5) = 9x^{2} - 25$$

$$(4x-5)(4x+5) = 16x^{2} - 25$$

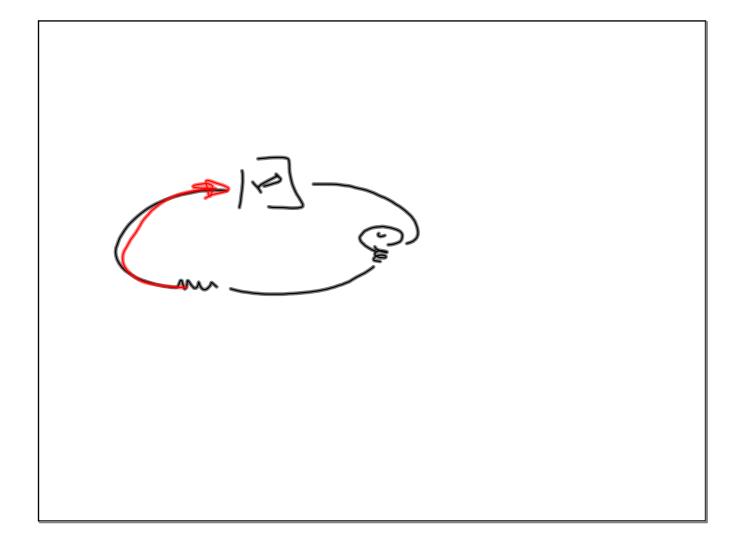
$$(6x-5)(6x+5) = 36x^{2} - 25$$

$$27x^{2} - 25$$

$$27x^{2} - 25$$

$$6x^{2} - 25$$

$$27x^{2} - 25$$



$$32x^{2} - 50 = 2(16x^{2} - 25)$$

$$2(4x - 5)(4x + 5)$$

$$32:2 = 16$$

$$50:2 = 25$$

Factor each completely.

1)
$$n^2 - 2n + 1$$

2)
$$a^2 - 1$$

3)
$$100v^2 - 36$$

4)
$$x^2 - 16$$

5)
$$9b^2 - 25$$

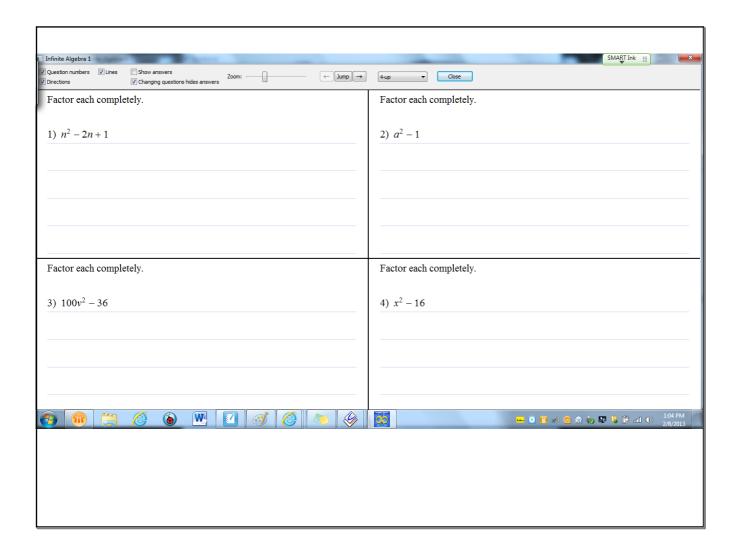
6)
$$8n^2 - 18$$

7)
$$25m^2 - 4$$

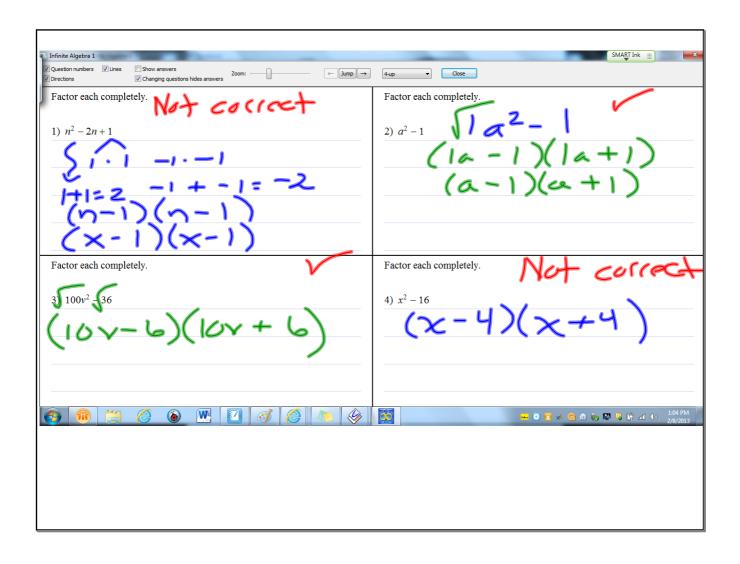
8)
$$n^2 - 8n + 16$$

9)
$$x^2 - 25$$

10)
$$a^2 + 8a + 16$$



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Answers to Assignment (ID: 1)

1) $(n-1)^2$ 2) (a+1)(a-1) 3) 4(5v+3)(5v-3) 4) (x+4)(x-4) 5) (3b+5)(3b-5) 6) 2(2n+3)(2n-3) 7) (5m+2)(5m-2) 8) $(n-4)^2$

Factor each completely. 1) $n^2 - 2n + 1$	Factor each completely. 2) $a^2 - 1$
$(n-1)^2$	(a+1)(a-1)
Factor and annulately	Total and applicable
Factor each completely.	Factor each completely.
3) $100v^2 - 36$ 4(5v + 3)(5v - 3)	$\frac{4) \ x^2 - 16}{(x+4)(x-4)}$

Factor each completely.	Factor each completely.
$5) 9b^2 - 25$ $(3b+5)(3b-5)$	$6) 8n^2 - 18$ $2(2n+3)(2n-3)$
Factor each completely.	Factor each completely.
7) $25m^2-4$	8) $n^2 - 8n + 16$
(5m+2)(5m-2)	$(n-4)^2$
Factor each completely. (a) $x^2 - 25$ $ \frac{(x+5)(x-5)}{(x+5)}$	Factor each completely. $ \frac{10) \ a^2 + 8a + 16}{(a+4)^2} $
(x+3)(x-3)	$(a+4)^2$

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