

Factoring Scavenger Hunt

Factor completely

1) $x^2 - 8x + 12$

3) $7x^2 - 4x - 3$

5) $x^2 - 6x + 9$

7) $3x^2 + 32x - 11$

9) $2x^2 + 4x + 2$

11) $3x^2 + 7x + 2$

13) $x^2 - 49$

15) $3x^2 - x - 2$

17) $x^2 + 6x - 2$

19) $15x^2 - 14x + 3$

2) $x^2 - 6x - 27$

4) $x^2 - 25$

6) $5x^2 + 5x - 10$

8) $3x^2 + 10x + 3$

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

12) $2x^2 + 5x + 3$

14) $6x^2 + 17x + 5$

16) $x^2 + 4x - 21$

18) $10x^2 - 3x - 1$

20) $9x^2 - 1$

Homework - Factoring #3

Factor completely

1) $x^2 - 8x + 12$

$(x-6)(x-2)$

3) $7x^2 - 4x - 3$

$(7x+3)(x-1)$

5) $x^2 - 6x + 9$

$(x-3)^2$

7) $3x^2 + 32x - 11$

$(3x-1)(x+11)$

9) $2x^2 + 4x + 2$

$2(x+1)^2$

11) $3x^2 + 7x + 2$

$(3x+1)(x+2)$

13) $x^2 - 49$

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

15) $3x^2 - x - 2$

$(3x+2)(x-1)$

17) $x^2 + 6x - 2$

CANNOT BE FACTORED

19) $15x^2 - 14x + 3$

~~$(5x-3)(3x-1)$~~

$(5x-3)(3x-1)$

2) $x^2 - 6x - 27$

$(x-9)(x+3)$

4) $x^2 - 25$

$(x+5)(x-5)$

6) $5x^2 + 5x - 10$

$5(x+2)(x-1)$

8) $3x^2 + 10x + 3$

$(3x+1)(x+3)$

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

$(x+4)^2$

12) $2x^2 + 5x + 3$

$(2x+3)(x+1)$

14) $6x^2 + 17x + 5$

$(2x+5)(3x+1)$

16) $x^2 + 4x - 21$

$(x+7)(x-3)$

18) $10x^2 - 3x - 1$

$(2x-1)(5x+1)$

20) $9x^2 - 1$

$(3x+1)(3x-1)$

$$x^2 - 8x + 12$$



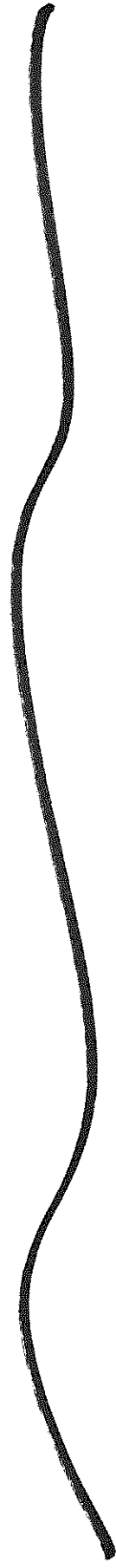
$$(3x + 1)(3x - 1)$$

$$9x^2 - 1$$



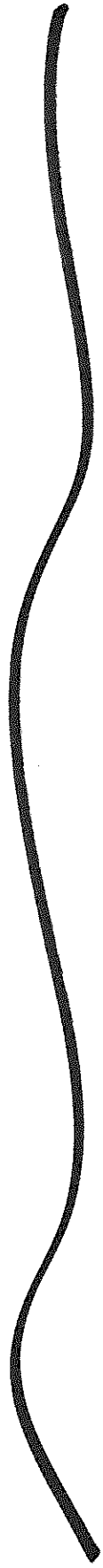
$$(5x - 3)(3x - 1)$$

$$15x^2 - 14x + 3$$



$$(2x - 1)(5x + 1)$$

$$10x^2 - 3x - 1$$



CANNOT BE

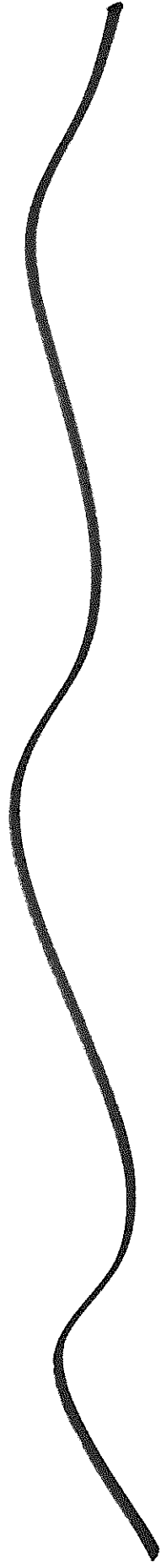
FACTORED

$$x^2 + 6x - 2$$



$$(x+7)(x-3)$$

$$x^2 + 4x - 21$$



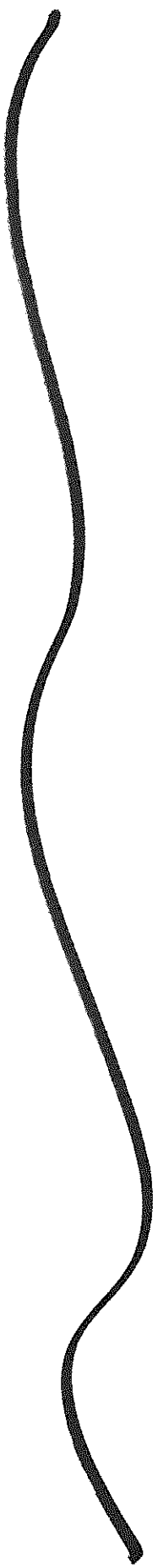
$$(3x + 2)(x - 1)$$

$$3x^2 - x - 2$$



$$(2x + 5)(3x + 1)$$

$$6x^2 + 17x + 5$$



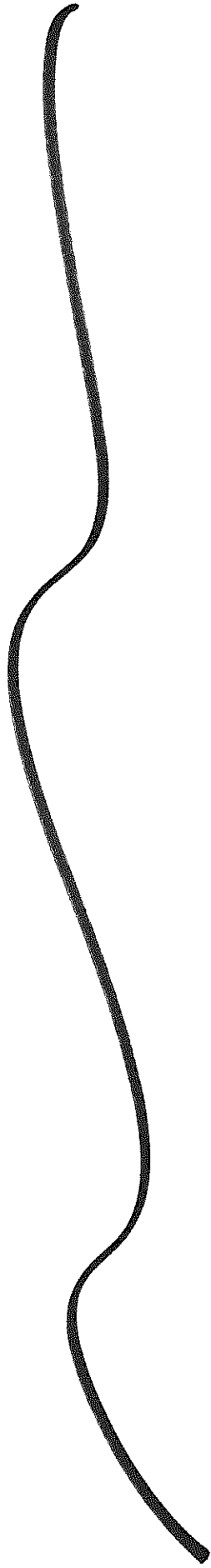
$$(x+7)(x-7)$$

$$x^2 - 49$$



$$(2x + 3)(x + 1)$$

$$2x^2 + 5x + 3$$



$$(3x+1)(x+2)$$

$$3x^2 + 7x + 2$$



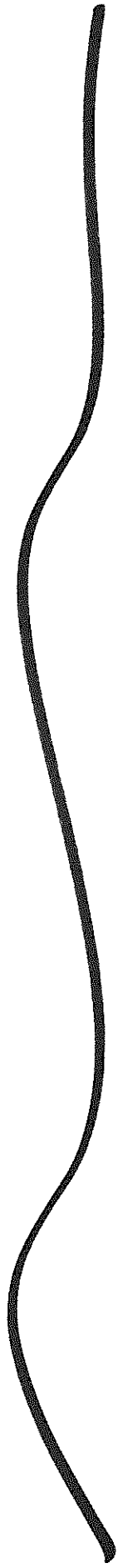
$$(x + 4)^2$$

$$x^2 + 8x + 16$$



$$2(x+1)^2$$

$$2x^2 + 4x + 2$$



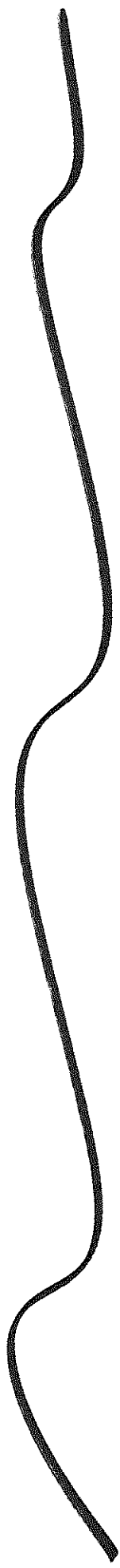
$$(3x + 1)(x + 3)$$

$$3x^2 + 10x + 3$$



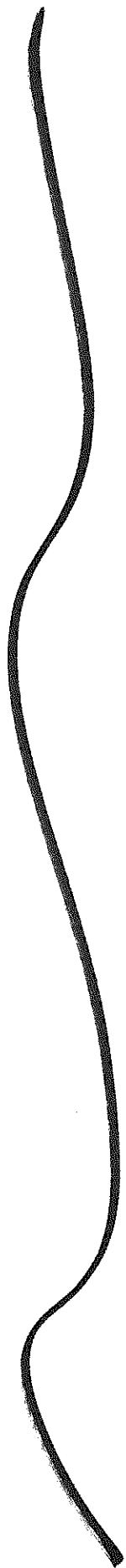
$$(3x-1)(x+1)$$

$$3x^2 + 32x - 11$$



$$5(x+2)(x-1)$$

$$5x^2 + 5x - 10$$



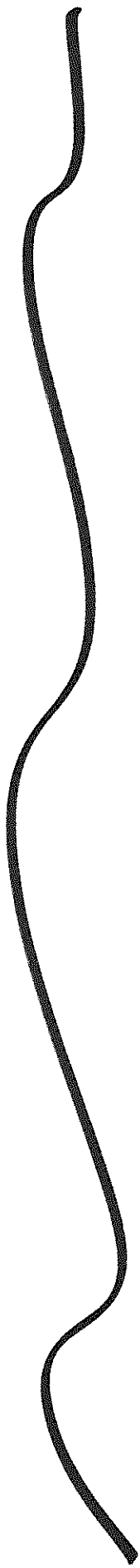
$$(x-3)^2$$

$$X^2 - 6X + 9$$



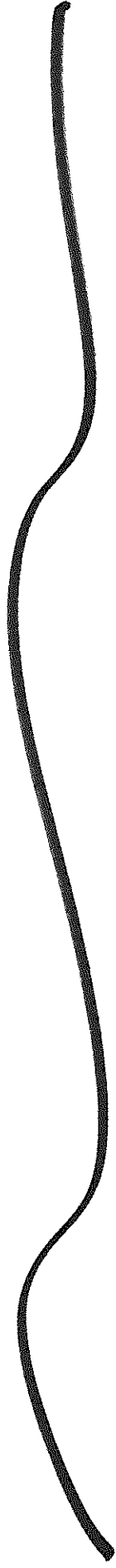
$$(X + 5)(X - 5)$$

$$x^2 - 25$$



$$(7x + 3)(x - 1)$$

$$7x^2 - 4x - 3$$



$$(x - 9)(x + 3)$$

$$x^2 - 6x - 27$$



$$(x - 6)(x - 2)$$