Name_____FA Addition and Subtraction that requires factoring Period_____

12	15	20	24	40
(1,12)	(1,15)	(1,20)	(1,24)	(1,40)
(2,6)	(3,5)	(2,10)	(2,12)	(2,20)
(3,4)		(4,5)	(3,8)	(4,10)
			(4,6)	(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+4}{x^2-4x-12}+\frac{2x-1}{x^2-18x-40}$$

$$\frac{2x-5}{x^2+11x+24}-\frac{5x-3}{x^2-1x-12}$$

12	16	20	24	25	40
(1,12)	(1,16)	(1,20)	(1,24)	(1,25)	(1,40)
(2,6)	(2,8)	(2,10)	(2,12)	(5,5)	(2,20)
(3,4)	(4,4)	(4,5)	(3,8)		(4,10)
			(4,6)		(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+5}{x^2-8x+16} + \frac{3x-6}{x^2-10x+24}$$

$$\frac{2x-5}{x^2-3x-40} - \frac{5x-3}{x^2-25}$$

12	15	20	24	40
(1,12)	(1,15)	(1,20)	(1,24)	(1,40)
(2,6)	(3,5)	(2,10)	(2,12)	(2,20)
(3,4)		(4,5)	(3,8)	(4,10)
			(4,6)	(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+5}{x^2+4x-12} + \frac{2x-3}{x^2+10x-24}$$

$$\frac{x-6}{x^2-2x-15} - \frac{3x-2}{x^2+3x-40}$$

12	16	20	24	25	40
(1,12)	(1,16)	(1,20)	(1,24)	(1,25)	(1,40)
(2,6)	(2,8)	(2,10)	(2,12)	(5,5)	(2,20)
(3,4)	(4,4)	(4,5)	(3,8)		(4,10)
			(4,6)		(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+7}{x^2 - 10x + 25} + \frac{5x-2}{x^2 - 9x + 20}$$

$$\frac{2x-5}{x^2 - 6x - 40} - \frac{5x-3}{x^2 - 16}$$

12	15	20	24	40
(1,12)	(1,15)	(1,20)	(1,24)	(1,40)
(2,6)	(3,5)	(2,10)	(2,12)	(2,20)
(3,4)		(4,5)	(3,8)	(4,10)
			(4,6)	(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+7}{x^2-8x-20}+\frac{3x-2}{x^2-10x-24}$$

$$\frac{x-6}{x^2-12x+20}-\frac{3x-2}{x^2+18x-40}$$

9	15	20	24	25	40
(1,9)	(1,15)	(1,20)	(1,24)	(1,25)	(1,40)
(3,3)	(3,5)	(2,10)	(2,12)	(5,5)	(2,20)
		(4,5)	(3,8)		(4,10)
			(4,6)		(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+10}{x^2-10x+9}+\frac{5x-3}{x^2+14x-15}$$

$$\frac{5x-1}{x^2+10x+25}-\frac{7x-2}{x^2-25}$$

Name_____FA Addition and Subtraction that requires factoring Period_____

12	15	20	24	40
(1,12)	(1,15)	(1,20)	(1,24)	(1,40)
(2,6)	(3,5)	(2,10)	(2,12)	(2,20)
(3,4)		(4,5)	(3,8)	(4,10)
			(4,6)	(5,8)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+5}{x^2+1x-12}+\frac{2x-5}{x^2-2x-24}$$

$$\frac{x-6}{x^2-6x-40}-\frac{2x-7}{x^2+7x+12}$$

9	15	16	24	25	36
(1,9)	(1,15)	(1,16)	(1,24)	(1,25)	(1,36)
(3,3)	(3,5)	(2,8)	(2,12)	(5,5)	(2,18)
		(4,4)	(3,8)		(3,12)
			(4,6)		(4,9)
					(6,6)

Completely simplify each expression. Show your work in a clear and easy to follow manner

$$\frac{x+10}{x^2-12x+36}+\frac{5x-7}{x^2-2x-24}$$

$$\frac{7x-1}{x^2+6x+9}-\frac{4x-3}{x^2-9}$$