9-16-13
3rd Trig

Review

$(x+3)(x+5)$

$x^2+5x+3x+15$

$x^2+8x+15$

$(x+2)(x+6)$

$x^2+8x+12$

$(x+6)(x-5)$

x^2+x-30

$(x+3)(x+7) = x^2+10x+21$

$(x+1)(x+6) = x^2+7x+6$

$(x+3)(x+10) = x^2+13x+30$

Factor $x^2+8x+12$

$(x+2)(x+6)$

12
1, 12
2, 6
3, 4

Factor $x^2+21x+20$

$(x+1)(x+20)$

20
1, 20
2, 10
4, 5

Factor $x^2+11x+30$

$(x+5)(x+6)$

30
1, 30
2, 15
3, 10
5, 6

Factor $x^2+4x-12$

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

12

1, 12

-2, +6

3, 4

Factor $x^2+13x-30$

$(x-2)(x+15)$

30

1, 30

-2, +15

3, 10

5, 6

Factor $x^2-11x+10$

$(x-1)(x-10)$

10

-1, -10

-2, -5

Factor $2x^2+7x+5$

a b c

5

$1, 5$

$(2x+1)(x+5)$ ✗

$(2x+5)(x+1)$ ✓

2 possibilities

9-16-13

4th Trig

Review

$(x+4)(x+2)$

$x^2+2x+4x+8$

x^2+6x+8

$(x+3)(x+5)$

$x^2+8x+15$

$(x+5)(x+4)$

$x^2+9x+20$

$(x+2)(x+100)$

$x^2+102x+200$

$(x-4)(x+10)$

$x^2+6x-40$

$(x-1)(x-100)$

$x^2-101x+100$

Factor $x^2+12x+20$

$(x+2)(x+10)$

20

1, 20

2, 10

4, 5

Factor $x^2+13x+12$

$(x+1)(x+12)$

12

1, 12

2, 6

3, 4

Factor $x^2 + 4x - 12$

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

12
1, 12
-2, 6
3, 4

Factor $x^2 - 10x + 9$

$(x-1)(x-9)$

9
-1, -9
-3, -3

Factor $x^2 + 31x + 30$

$(x+1)(x+30)$

30
1, 30
2, 15
3, 10
5, 6

$ax^2 + bx + c$

$a \neq 1$

Factor $2x^2 + 11x + 14$

14
1, 14
2, 7

$(2x+1)(x+14)$ x

$(2x+14)(x+1)$ x

$(2x+2)(x+7)$ x

$(2x+7)(x+2)$ ✓