

Solve by Factoring Practice

Solve:

1. $(9x-2)(7x-3)=0$

$x=2/9$ $x=3/7$

3. $7x(x+3)(4x-5)=0$

$x=0$ $x=-3$ $x=5/4$

5. $x(x+17)=-60$

2. $(2x-5)(2x+3)=0$

$x=5/2$ $x=-3/2$

4. $8(7x-15)=0$

$x=15/7$

6. $x^2-3(x+2)=4$

7. $x^2-5x-36=0$

$(x-9)(x+4)=0$

$x=9$ $x=-4$

8. $-8x^2-10x=0$

$-2x(4x+5)=0$

$x=0$ $x=-5/4$

10. $-15x^2+2x+8=0$

9. $3x^2+19x+6=0$
 $x^2+(9x+18)(x+6)(3x+1)=0$
 $(x+1/3)(x+1/3)$ $x=-6$ $x=-1/3$

11. $8x^2-50=0$
 $2(4x^2-25)=0$

$x=5/2$
 $x=-5/2$

12. $-64x^2=-9$

$64x^2-9=0$

$(8x+3)(8x-3)=0$

$x=-3/8$ $x=3/8$

$2(2x+5)(2x-5)=0$

13. $12x^2-9x=0$

$3x(4x-3)=0$

$x=0$ $x=3/4$

14. $-x^2=-6x-27$

$x^2-6x-27=0$

$(x+3)(x-9)=0$

$x=-3$

$x=9$

16. $2x^2-17x=-30$

1. $3x^2-17x+20=0$

$x^2-17x+60$
 $(x-\frac{12}{3})(x-\frac{5}{3})$

$(x-4)(3x-5)=0$

$x-4=0$
 $+4 +4$

$x=4$

$3x-5=0$
 $+5 +5$

$3x=5$
 $\frac{3}{3} \frac{5}{3}$

$x=5/3$

2. $x^2+17x-30=0$

$x^2+17x-60=0$

$(x+\frac{20}{2})(x-\frac{3}{2})=0$

$(x+10)(2x-3)=0$

$x+10=0$

$2x-3=0$

$x=-10$

$x=3/2$