QUADRATIC EQUATIONS

Solve:

1 $x(x-5)=0$

① either $x=0$

or $x=5$

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

② either $x=2$

or $x=3$

3 $x(2x+1)=0$

③ either $x=0$

or $2x+1=0 \iff x=-1/2$

4 $(x-7)(2x+5)=0$

either $x=7$

or $2x+5=0$

$\iff x=-5/2$

5 $3x(2x-9)=0$

either $x=0$

or $2x-9=0$

$\iff x=9/2$

6 $-5x(x+1)=0$

either $x=0$

or $x=-1$

QUADRATIC EQUATIONS

7 $(x-a)(x-b)=0$

either $x=a$

or $x=b$

8 $(x-3a)(x+2b)=0$

either $x=3a$

or $x=-2b$

9 $(x-2)(x+2)=0$

either $x=2$

or $x=-2$

10 $(2x-11)(2x+11)=0$

11 $(x-1)^2=0$

12 $(2x+3)^2=0$

(10) either $2x-11=0 \iff x=11/2$

or $2x+11=0 \iff x=-11/2$

(11) $x=1$

(12) $2x+3=0 \iff 2x=-3 \iff x=-3/2$