

3:00 AM

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① $x^2 + 10x + 21 = 0$

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

$x+3=0 \quad x+7=0$

$x=-3 \quad x=-7$

② $x^2 - 3x + 2 = 0$

$(x-1)(x-2)$

$x-1=0 \quad x-2=0$

$x=1 \quad x=2$

③ $x^2 + 12x + 20 = 0$

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

$x+10=0 \quad x+2=0$

$x=-10 \quad x=-2$

④ $x^2 - 64 = 0$

$(x-8)(x-8)$

$x-8=0 \quad x-8=0$

$x=8 \quad x=8$

⑤ $2x^2 + 9x + 10 = 0$

$(2x+5)(x+2)$

$2x+5=0 \quad x+2=0$

$x=-2.5 \quad x=-2$

⑥ $14x^2 + 3x = 11$

$14x^2 + 3x - 11 = 0$

$$\frac{-3 \pm \sqrt{3^2 - 4(14)(-11)}}{2(14)}$$

$$\frac{-3 \pm \sqrt{9+616}}{28}$$

$$\frac{-3 \pm \sqrt{75}}{28}$$

$$\frac{-3+75}{28}$$

$$\frac{18}{7}$$

$$\frac{-3-75}{28}$$

$$\frac{-18}{7}$$