Name:

ZPP Homework

(#1-6) Solve the following equations by factoring.

1) $(4p-7)(p+5)=0$

$4p-7=0 \quad p+5=0$

$p=\frac{7}{4}$ OR $p=-5$

2) $b^2-11b+24=0$

$b^2-11b+24=0$

$(b-8)(b-3)=0$

$b-8=0 \quad b-3=0$

$b=8$ OR $b=3$

3) $9x^2-12x=0$

$9x^2-12x=0$

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

$3x-0 \quad 3x-4=0$

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

4) $4x^2+11x+6=0$

$4x^2+11x+6=0$

$(4x+3)(x+2)=0$

$4x+3=0 \quad x+2=0$

$x=-\frac{3}{4}$ OR $x=-2$

5) $15x^3-13x^2+2x=0$

$x(15x^2-13x+2)=0$

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

$5x-1=0 \quad 3x-2=0$

$x=0$ OR $x=\frac{1}{5}$ OR $x=\frac{2}{3}$

6) $x^2+7x+12=0$

$0=x^2+7x+2$

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

$x+4=0 \quad x+3=0$

$x=-4$ OR $x=-3$

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