H/W Review: p. 596

(13) $-2h^2+5h+3 = -1(h-3)(2h+1)$

$-1(2h^2-5h-3)$

$2h^2$	-3	possibilities	middle
$h, 2h$	$-1, 3$	$(h-1)(2h+3)$	h
	$1, -3$	$(h+3)(2h-1)$	$5h$
		$(h+1)(2h-3)$	$-h$
		$(h-3)(2h+1)$	$-5h$

(31) $p(3p+14)=5$

$3p^2+14p=5$

$3p^2+14p-5=0$

$3p^2$	-5
$p, 3p$	$1, -5$
	$-1, 5$

poss.

$(p+1)(3p-5)$

$(p-5)(3p+1)$

$(p-1)(3p+5)$

$(p+5)(3p-1)$

middle
$-2p$
$-14p$
$2p$
$14p$

$p+5=0$ — $3p-1=0$

$p=-5$ or $p=\frac{1}{3}$

(35) $6r^2 - 15r = 99$

$-15r$

$6r^2 - 15r - 99 = 0$

$6r^2$	-99	poss.	middle
→ $r, 6r$	$-1, 99$ x		
$2r, 3r$	→ $-3, 33$	$(r+3)(6r-33)$	$-15r$
	$-9, 11$		
	$9, -11$	$(2r-11)(3r+9)$	$-15r$
	→ $3, -33$		
	$1, -99$ x		

$r+3=0$

$\boxed{r=-3}$

$6r-33=0$

$6r=33$

$\boxed{r=\frac{33}{6}=\frac{11}{2}}$

$2r-11=0$

$2r=11$

$\boxed{r=\frac{11}{2}}$

$3r+9=0$

$3r=-9$

$\boxed{r=-3}$

④ $-x^2+x+20$

$-1(x^2-x-20) = -1(x-5)(x+4)$

x^2	-20	Poss	middle
x, x	$-1, 20$	$(x-4)(x+5)$	x
	$-2, 10$		
	$-4, 5$	$(x-5)(x+4)$	$-x$
	$4, -5$		
	$2, -10$		
	$1, -20$		

POP QUIZ

p. 599, #1, 9, 13 (factor)
19, 23 (solve)

Homework:

Complete Factoring W.S.

and Factoring practice