I Solve for *x*:

a)
$$\sqrt{2x-5} = 1 + \sqrt{x-3}$$
 b) $\frac{5}{3x+2} = \frac{3}{2x} - 1$

II Simplify:

a)
$$\frac{-5+9i}{1-2i}$$
 b) $\frac{4\sqrt{6}-3\sqrt{10}}{\sqrt{6}-2\sqrt{10}}$

III Given $f(x) = \frac{2x}{1+x}$.

a) Find
$$f(\frac{1}{3})$$
 B) Find $\frac{f(x+h)-f(x)}{h}$

IV Rosita can wax her car in 2 hours. When she works together with Helga, they can wax the car in 45 minutes. Helga will start waxing the car by herself at 3:30 p.m. What time will she finish?

V Solve for x. Graph solution on number line:

$$|x+1| - x + |1-x| = 6$$

Prodice Day 21 Pf 1 J 4) VZX-5 = 1+UX-3 (3) (5 × 3 -1) 2K (3K+2) 2x-5 = (+2Ux-3+x-5 10x = 9x+6 - 6x2-4x = x -2+2Ux-3 6x2+5x -6=0 X -3 = 2UX-3 x2-6x49=4(k-3) (3x-2)(2x+3)=0 =44-12 X== X== Bothak x2-10x+21=0 (x-y) (x-3)=0 II 13 -549; 1+3 x=7 x=3 1-21 1+11 x=7 V9 = 1 + U4 -18-101 x=3 UT= 1+0 $-\frac{23}{5} - \frac{1}{5}\lambda$ 4387,33 18) 456-3500 Vate Vio TI S(4)> 2x JE - 2 Vo Jetz Vie 24 8 500 5 500 4-15 A) f(3) = 2.3 -36+ LOVET 6-40 -18+5 JUS -17 B) f(x+4) = 2x+24 14-5015 n (-x+ (x) - x+ (x) - (xx - (xx) - (xx))

1 ((x + (xx) + (x) + ((1+ 1+1)(Hx) $\frac{1}{h}\left(\frac{2x+2h}{1+xh}-\frac{2x}{1+x}\right)$

TV (et h= helga's lons $\left(\frac{1}{h}, \frac{3}{4} + \frac{1}{2}, \frac{3}{4} = 1\right) 8h$. Helga will Finds 6 + 3 H = 84 6 = 84 et 4:42 pm 6 - 4 1 to 12 min 5 1x+11-x1-6 -13 14 *< -1 - (メナリーメナード=6 x+1-x+ 1-x=6 -x1-x+1-x=e 2 -x=6 -3x = 6 x=-2 471 x 2 { - 3 6 } x+1-x+1+x=c

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