Plan A: .75/min, 120 free

Plan B: 0.25/min, 30 free

Let x = # minutes

$.75(x-120) = 0.25(x-30)$

$-0.25x \quad -0.25x$

$.75x - 90 = 0.25x - 7.5$

$0.75x - 0.25x = -7.5 + 90$

$\frac{0.5x}{0.5} = \frac{82.5}{0.5}$

$= 165 \text{ min}$

Verify

Plan A: $0.75(165-120)$
$= 0.75(45)$
$= \$33.75$

Plan B: $0.25(165-30)$
$0.25(135)$
$\$33.75$

(1) $\frac{x}{5} + 7 = 20$ (-7) (-7)

$(5)\ \frac{x}{5} = 13\ (5)$

$x = 65$

(2) $\frac{x+2}{3} = \frac{2x-5}{5}$

$15\left(\frac{x+2}{3}\right) = 15\left(\frac{2x-5}{5}\right)$

$5(x+2) = 3(2x-5)$

$5x + 10 = 6x - 15$

$5x - 6x = -15 - 10$

$-x = -25$

$x = 25$

$\frac{5}{2} + \frac{5}{3}$ 6

$\frac{5}{3}$ $\frac{5}{7}$ 21

$\frac{5}{2}$ $\frac{5}{4}$ 4

③ $\frac{8}{h} = 2$, $h \neq 0$

$h\left(\frac{8}{h}\right) = h(2)$

$\frac{8}{2} = \frac{2h}{2}$

$4 = h$

Homework

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