$20^2 = 400$

$x^2 - 40x + \boxed{391} = 0$

"b"

$9x = 17, 23$

$20 \pm \sqrt{9}$

400

$x^2 - 40x + (225) = 0$

625

$x = 20 \pm 25$

$f(a) =$ rem. when div. by $(x-a)$

$$x-a \overline{)\, x^3 + 3x^2 - 8x - 80 \;\; x^2}$$

$x^3 - ax^2$

$(3+a)x^2$ etc.

etc.

Rem $= a^3 + 3a^2 - 8a - 80$

Rem $= 0$ when $a = 4$

$$d \overline{)\, P \;\; Q \;\; r}$$

$P = dQ + r$