

ACMA4006

dii) $x^2 + 13x + 22 = 0$
 $(x + 11)(x + 2)$

$x + 11 = 0$ $x + 2 = 0$

$x = -11$ $x = -2$

diii) $x^2 - 100 = 0$

$\sqrt{100} = 10$

$(x + 10)(x - 10)$

$x + 10 = 0$ $x - 10 = 0$

$x = -10$ $x = 10$

div) $2x^2 + 7x + 5 = 0$

$(2x + 5)(x + 1)$

$2x + 5 = 0$ $x + 1 = 0$

$x = \frac{-5}{2}$ $x = -1$

$x = -2.5$

Q Three

ai) $\sin x = 0.75$

$x = \sin^{-1} 0.75$

$x = 48.59^\circ$

S/A
T/C

$x = 180 - 48.59$

$x = 131.41^\circ$