

3.3	$-\frac{1}{3}x - 2 = -x + 2$ $\frac{2}{3}x = 4$ $x = 6$ $y = -4$ $\therefore R(6; -4)$	✓equating/geëkwal stel ✓x-value/waarde ✓y-value/waarde (3)
3.4	$PR = \sqrt{(1-6)^2 + (1-(-4))^2}$ $= \sqrt{50} = 5\sqrt{2}$ OR/OF $PR^2 = (1-6)^2 + (1-(-4))^2$ $= 50$ $\therefore PR = \sqrt{50} = 5\sqrt{2}$	✓subst into/in distance formula/ afstandformule ✓answ/antw in surd form/ wortelvorm (2) ✓subst into/in distance formula/ afstandformule ✓answ/antw in surd form/ wortelvorm (2)
3.5	PR is a diameter/’n middellyn [chord subtends/keë onderspan 90°] Centre of circle/Midpt v sirkel: $\left(\frac{1+6}{2}; \frac{1-4}{2}\right)$ $= \left(3\frac{1}{2}; -1\frac{1}{2}\right)$ $r = \frac{\sqrt{50}}{2} \text{ OR } \frac{5\sqrt{2}}{2} \text{ OR } 3,54$ $\therefore \left(x - \frac{7}{2}\right)^2 + \left(y + \frac{3}{2}\right)^2 = \frac{50}{4} \text{ OR } \frac{25}{2} \text{ OR } 12,5$	✓✓5 ✓✓ $\left(3\frac{1}{2}; -1\frac{1}{2}\right)$ ✓r-value/waarde ✓answ/antw (6)
3.6	m of van radius = -1 $\therefore m$ of van tangent/raaklyn = 1 Equation of tangent/Vgl van raaklyn: $y - y_1 = (x - x_1)$ $y - 1 = x - 1$ OR/OF $y = x + c$ $\therefore y = x$ $1 = 1 + c$ $y = x$	✓ m of tang/raakl ✓subst m & P(1 ; 1) into/in eq of line/vgl v lyn ✓answ/antw (3)
3.7	$\tan \hat{PNT} = m_{PR} = -1$ $\therefore \hat{PNT} = 135^\circ$ $\tan \hat{PMT} = m_{PQ} = 3$ $\therefore \hat{PMT} = 71,57^\circ$ $\hat{P} = 63,43^\circ$ [ext $\angle$ of Δ/buite $\angle$ v Δ] $\therefore \theta = 26,57^\circ$ [sum of $\angle$s in Δ/som v $\angle$e in Δ] OR/OF	✓ $\tan \hat{PNT} = -1$ ✓ $\hat{PNT} = 135^\circ$ ✓ $\hat{PMT} = 71,57^\circ$ ✓ $\hat{P} = 63,43^\circ$ ✓answ/antw (5)

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