| 3.3 | $-\frac{1}{3}x-2=-x+2$  | √equating/gely/k<br>stel  |
|-----|---|---|
|     | $\frac{2}{3}x - 4$ $x = 6$ $y = -4$ $\therefore \mathbb{R}(6; -4)$  | √x-value/waande<br>√y-value/waande<br>(3)   |
| 3.4 | $ \begin{array}{c} \therefore \mathbb{R}(6; -4) \\ \mathbb{PR} = \sqrt{(1-6)^2 + (1-(-4))^2} \\ = \sqrt{50} = 5\sqrt{2} \end{array} $ OR/OF   | √ subst into/in<br>distance formula/<br>afstandsformule<br>√ answ/antw in<br>surd form/<br>wortelvorm (2) |
|     | $PR^{2} = (1-6)^{2} + (1-(-4))^{2}$ $= 50$ $\therefore PR = \sqrt{50} = 5\sqrt{2}$  | ✓ subst into/in distance formula/ afstandsformule ✓ answ/antw in surd form/ wortelvorm (2)                |
| 3.5 | PR is a diameter/'n middellym [chord subtends/kd onderspan 90°] Centre of circle/Midpt v sirkel: $\left(\frac{1+6}{2}; \frac{1-4}{2}\right)$ $= \left(3\frac{1}{2}; -1\frac{1}{2}\right)$ | $\checkmark \checkmark \left(3\frac{1}{2}; -1\frac{1}{2}\right)$  |
|     | $r = \frac{\sqrt{50}}{2}$ OR $\frac{5\sqrt{2}}{2}$ OR 3,54<br>$\therefore \left(x - \frac{7}{2}\right)^2 + \left(y + \frac{3}{2}\right)^2 = \frac{50}{4}$ OR $\frac{25}{2}$ OR 12,5       | √r-value/waarde<br>√answ/antw (6)   |
| 3.6 | m of/van radius = $-1\therefore m of/van tangent/maklyn = 1Equation of tangent/Vgl van raaklyn:y - y_1 - (x - x_1) y = x + cy - 1 - x - 1$ OR/OF $1 = 1 + c\therefore y - x y = x$        | ✓m of tang/rkl  ✓subst m & P(1; 1) into/in eq of line/vgl v hm ✓answ/antw (3)                             |
| 3.7 | tan PÑT = $m_{vv}$ = -1<br>$\therefore$ PÑT = 135°<br>tan PÑT = $m_{vo}$ = 3<br>$\therefore$ PÑT = 71,57°<br>$\hat{P} = 63,43°$ [ext $\angle$ of $\triangle/buite \angle v \triangle$ ]   | <pre>     tam PNT = -1     PNT = 135°      PNT = 71,57°      P = 63,43°     answ/antw</pre>               |
|     | $\therefore \theta = 26,57^{\circ} \qquad [sum of \angle s in \triangle/som v \angle e in \triangle]$ $OR/OF$   | (5)   |

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