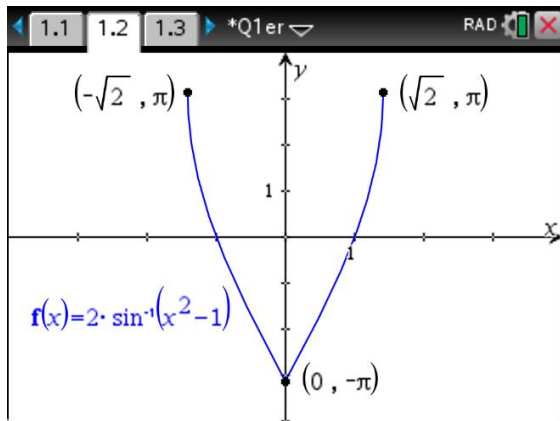# Sample solutions to the 2018 VCAA papers

Extended-Response Question 1b (Specialist Mathematics Examination 2)

Question 4 (Mathematical Methods Examination 1)

a.
$$\Pr(X > 6) = \Pr\left(Z > \frac{6-6}{2}\right)$$
$$= \Pr(Z > 0)$$
$$= 0.5$$

b.
$$\Pr(X > 7) = \Pr(X < 5)$$
$$= \Pr\left(Z < \frac{5-6}{2}\right)$$
$$= \Pr\left(Z < -\frac{1}{2}\right)$$
$$\therefore b = -\frac{1}{2}$$

Multiple-Choice Question 15 in Data Analysis (Further Mathematics Examination 1)

$$\left.\begin{array}{l}\dfrac{2402 + 2456 + 4651 + 3456}{4} = 3241.25 \\[2mm] \dfrac{2456 + 4651 + 3456 + 2823}{4} = 3346.5\end{array}\right\} \dfrac{3241.25 + 3346.5}{2} = 3293.88$$

B

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