

THE SCHOOL FOR EXCELLENCE (TSFX) VCE PHYSICS UNIT 3 & 4 WRITTEN EXAMINATION 2020 – ERRATA

SECTION B: SHORT ANSWER QUESTIONS

QUESTION 10b

Calculate the impulse exerted on the carriage by the locomotive.

SOLUTIONS – SECTION B

QUESTION 11b - Line 4

$$t = \frac{d}{v} = \frac{100}{42\cos 27} = 2.67 \text{ s}$$

QUESTION 12b - Line 2

The 0.97 should be squared.

QUESTION 14b - Line 2

 $T\cos 30^{\circ} = 2.2 \times 9.8$

QUESTION 14b

The correct answer for the given diagram is 43 N. The answer in the solutions (25 N) relates to the following diagram:



QUESTION 15a - Table

Please change "Fixed Variable" in Cell 1 to "Controlled Variable".