#### ERRATA for

# FE Environmental Practice Exam

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#### Revisions are shown in red.

### Question 5, p. 9:

### The question should read as follows:

5. Given the function f(x) = 1/(x-2), the linear approximation of f(x) around x = -1 is most nearly:

# **Solution 25, p. 64:**

#### The solution should read as follows:

**25.** Refer to the Cylindrical Pressure Vessel section in the Mechanics of Materials chapter of the *FE Reference Handbook*.

The cylinder can be considered thin-walled if  $\frac{t}{\frac{d_i}{2}} \le 0.10$ . In this case, t = 12 mm and  $d_i = 700$  mm.

Since  $\frac{t}{\frac{d_i}{2}} = \frac{12}{350} = 0.034$  which is  $\leq 0.10$ , the pipe is thin-walled.

Thus 
$$\sigma_t = \frac{P_i r}{t}$$

where 
$$r = \frac{r_i + r_o}{2} = \frac{350 + 362}{2} = 356 \text{ mm}$$

$$\sigma_t = \frac{(1.680 \text{ MPa})(356 \text{ mm})}{12 \text{ mm}} = 49.8 \text{ MPa}$$

THE CORRECT ANSWER IS: B

