

MA 261

REVIEW PROBLEMS (LESSONS 26-37)

P. 1050: 27, 28.

P. 1136: 2, 3, 7, 9, 12, 13, 17, 18, 25, 28, 30, 34.

ANSWERS TO EVEN NUMBERED PROBLEMS

P. 1050

28. $\pi/14$.

P. 1136

2. $\frac{1}{12}(5\sqrt{5} - 1)$.

12. $f(x, y, z) = x \sin y + \cos z + C$.

18. $\text{curl} \mathbf{F} = -e^{-y} \cos z \mathbf{i} - e^{-z} \cos x \mathbf{j} - e^{-x} \cos y \mathbf{k}$.
 $\text{div} \mathbf{F} = -e^{-x} \sin y - e^{-y} \sin z - e^{-z} \sin x$.

28. $32\pi\sqrt{3}$.

30. $\pi/2$.

34. 11π .