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hints attempt to distill the most important material from each section into a few concise statements. The remainder of this study guide consists of Solutions to Selected Exercises. The exercises selected include easier problems as well as very challenging ones.

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Glossary/Notation \times =
vector cross product. If
 $x_1 = (x_1, y_1, z_1)$, $x_2 =$
 (x_2, y_2, z_2) , then the
cross product is
computed as the
symbolic determinant
$$x_1 \times x_2 = \det \begin{vmatrix} i & j & k \\ x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \end{vmatrix}$$
. The

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cross product produces
a vector perpendicular
to both \mathbf{x}_1 and \mathbf{x}_2 .

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Denoted by (ρ, ϕ, θ) ,

$\rho \geq 0$, ρ is the distance
from the origin, $\phi \in [0, \pi]$ is
the angle from the
positive z axis and $\theta \in [0, 2\pi]$ is
the same as in

cylindrical coordinates.

Know the formulas $x = \rho \cos \theta$, $y = \rho \sin \theta$, $z = z$

or $x = \rho \sin \phi \cos \theta$, $y = \rho \sin \phi \sin \theta$, $z = \rho \cos \phi$

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$y = p \sin \phi$ and $z = p \cos \phi$. Also know
 $\tan \phi = \frac{y}{x}$ and $\phi = \cos^{-1} \left(\frac{z}{\sqrt{x^2 + y^2 + z^2}} \right) = \cos^{-1} \left(\frac{z}{p} \right)$.

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For example if the x
component is zero then

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$(2, -3, 5) \cdot (0, y, z) = -3y + 5z$ is solved when $y = 5k$ and $z = 3k$ for any scalar k . In other words, the vectors $a = (0, 5, 3)$ and $b = (3, 2, 0)$ are orthogonal to n . For a point in the plane $2x - 3y + 5z = 30$, set any two of x , y , and z to zero. For example $(0, 0, 6)$ is in the plane.

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the components of
vector with 6 and
multiply the
components of vector
with 8 and then add
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can be plotted as
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exactly to those of the textbook, and every exercise solved here appears in blue type there.

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