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HW8 M282 S08 (377777)

About this Assignment

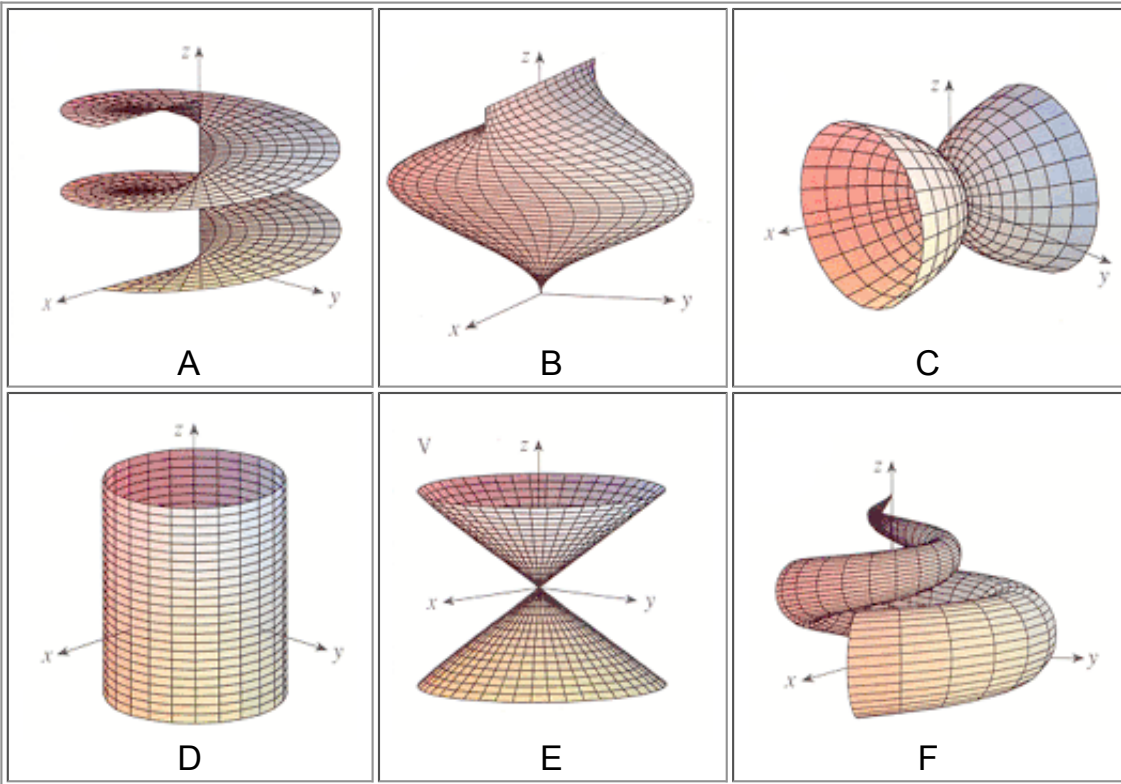
Due: **Tue May 27 2008 08:00 PDT**

1. SCalcET5 16.6.012. [295275] [Show Details](#)

Match the equation with its graph.

$$\mathbf{r}(u, v) = u \cos v \mathbf{i} + u \sin v \mathbf{j} + u \mathbf{k}$$

---Select---

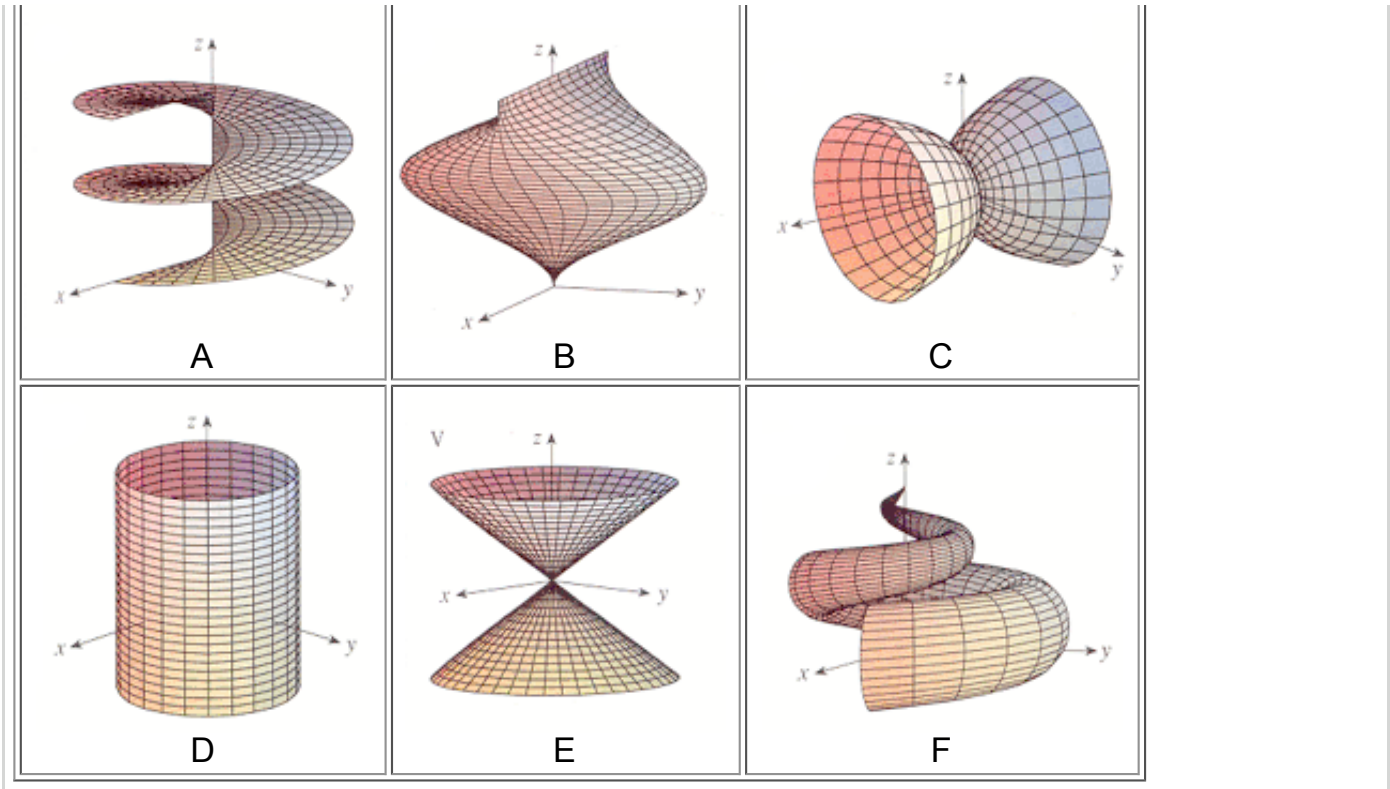


2. SCalcET5 16.6.014. [295435] [Show Details](#)

Match the equation with its graph.

$$x = u^3, y = u \sin v, z = u \cos v$$

---Select---

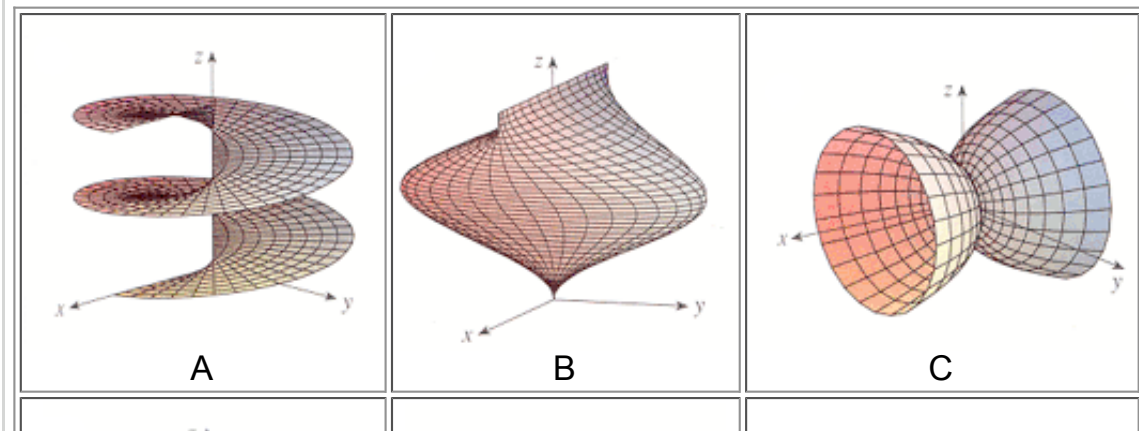


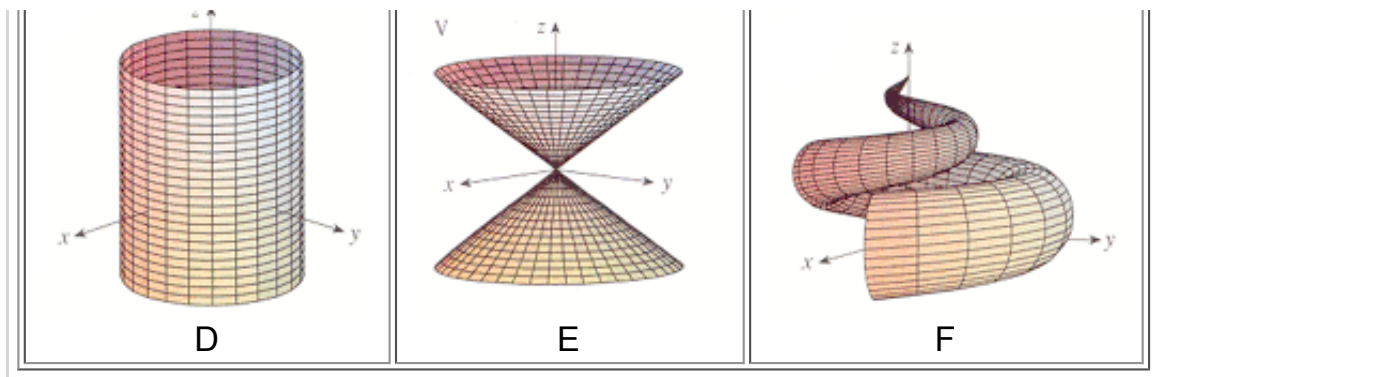
3. SCalcET5 16.6.016. [295309] [Show Details](#)

Match the equation with its graph.

$$x = (1 - u)(3 + \cos v) \cos 4\pi u, \quad y = (1 - u)(3 + \cos v) \sin 4\pi u, \quad z = 3u + (1 - u) \sin v$$

---Select---





4. SCalcET5 16.6.022. [349639] [Show Details](#)

Find a parametric representation for the surface. Parametrize with respect to y and θ . (To enter θ , type theta.)

The part of the cylinder $x^2 + z^2 = 1$ that lies between the planes $y = -1$ and $y = 3$

$x = \sin(\theta)$

$y =$

$z =$

where

$0 \leq \theta \leq 2\pi$

$\leq y \leq$

[+ symbolic formatting help](#)

5. HW8.1 [546564] [Show Details](#)

Let $T(u,v) = ((\cos(u)+2)\cos(v), (\cos(u)+2)\sin(v), \sin(u))$ parametrize the torus where $0 < u < 2 \cdot \pi$ and $0 < v < 2 \cdot \pi$. Find the surface area of the torus.

(A numerical answer xx.xx is desired)



6. HW8.2 [546566] [Show Details](#)

Let $T(u,v) = (u\cos(v), u\sin(v), 1-u)$ parametrize a surface for $0 < u < 1$ and $0 < v < 1$. Find the surface area.

(A numerical answer x.xxx is desired)



7. HW8.3 [546569] [Show Details](#)

Let $T(u,v)=(\sin(u)\cos(v),\cos(u),\sin(u)\sin(v))$ for $0 < u < \pi$ and $0 < v < \pi$ Find the area of the surface this spans

(A numerical answer x.xxx is desired)



8. HW8.4 [546573] [Show Details](#)

Let $T(u,v)=(u\cos(v), u^2, u\sin(v))$ for $0 < u < 1$ and $0 < v < 2\pi$. Find the area of this surface.

(A numerical answer xx.xx is desired)



9. HW8.5 [549101] [Show Details](#)


Let $P = \frac{y - 1}{(x - 1)^2 + (y - 1)^2}$ and let $Q = -\frac{x - 1}{(x - 1)^2 + (y - 1)^2}$ Traverse the following curves in the usual counterclockwise fashion. Find

$\int_{x^2+y^2=1} Pdx + Qdy$ (A numerical answer xx.xx is desired)

$\int_{x^2+y^2=3} Pdx + Qdy$ (A numerical answer xx.xx is desired)

$\int_{x^2+xy+y^2=5} Pdx + Qdy$ (A numerical answer xx.xx is desired)

$\int_{2x^2+3xy+4y^2=8} Pdx + Qdy$ (A numerical answer xx.xx is desired)



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10. HW8.6 [549102] [Show Details](#)

Let $P = \frac{x - 1}{(x - 1)^2 + (y - 1)^2}$ and let $Q = \frac{y - 1}{(x - 1)^2 + (y - 1)^2}$ Traverse the following curves in the usual counterclockwise fashion. Find

$\int_{x^2+y^2=1} Pdx + Qdy$ (A numerical answer xx.xx is desired)

$\int_{x^2+y^2=3} Pdx + Qdy$ (A numerical answer xx.xx is desired)

$\int_{x^2+xy+y^2=5} Pdx + Qdy$ (A numerical answer xx.xx is desired)

$\int_{2x^2+3xy+4y^2=8} Pdx + Qdy$ (A numerical answer xx.xx is desired)



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