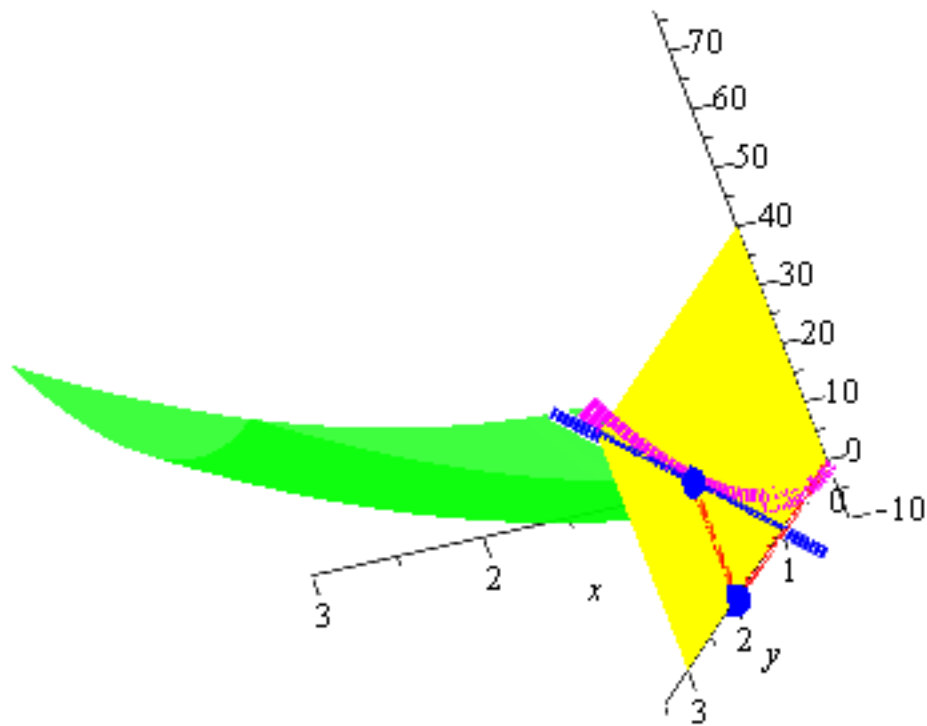


```

with(plots) : with(plottools) :
a := plot3d(3·x2 + 5·y2, x=0..3, y=0..3, transparency=0.5, color=green, style=patchnogrid) :
b := animate(plot3d, [[A, x, y], x=0..3, y=0..40, color=yellow, style=patchnogrid], A=0..3) :
c := animate(pointplot3d, [[A, 2, 20 + 3·A2], symbol=solidcircle, symbolsize=30, color=blue], A=0
..3) :
d := animate(pointplot3d, [[A, 2, 0], symbol=solidcircle, symbolsize=30, color=blue], A=0..3) :
e := animate(spacecurve, [[A·t, 2, 0], t=0..1, color=red, thickness=5], A=0..3) :
f := animate(spacecurve, [[A, t, 0], t=0..2, color=red, thickness=5], A=0..3) :
g := animate(spacecurve, [[A, 2, t·(20 + 3·A2)], t=0..1, color=red, thickness=5], A=0..3) :
h := animate(spacecurve, [[A, 3·t, 45·t2 + 3·A2], t=0..1, thickness=15, color=magenta], A=0
..3) :
j := animate(spacecurve, [[A, 2 + 3 t, 20 + 3 A2 + 60 t], t=-1/2..1/2, color=blue, thickness=5], A
=0..3) :
display(a, b, c, d, e, f, g, h, j, axes=normal)

```

A=0.



```

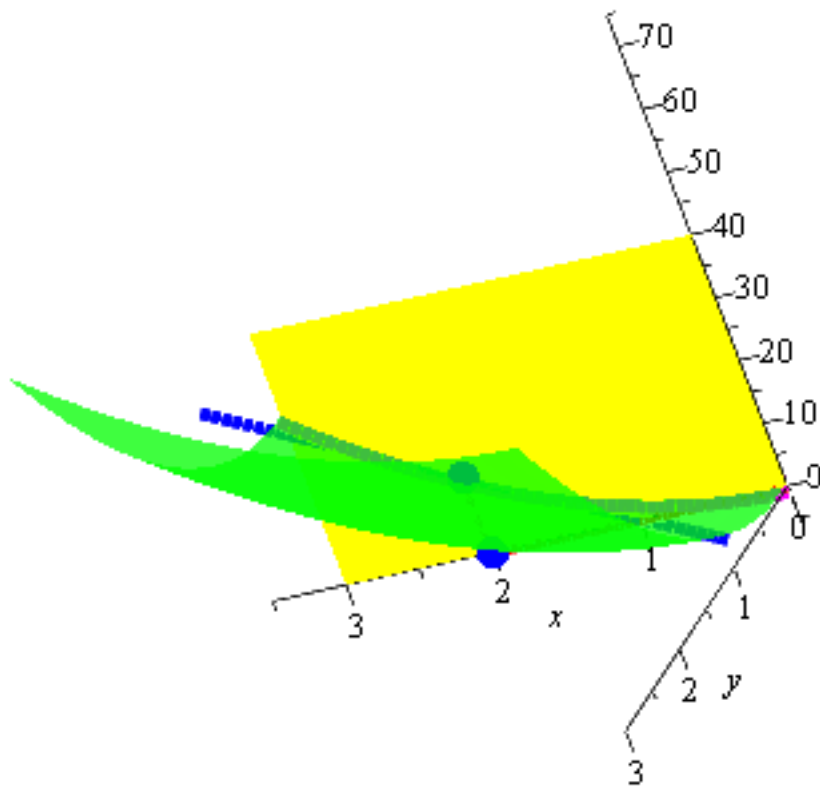
with(plots) : with(plottools) :
a1 := plot3d(3·x2 + 5·y2, x=0..3, y=0..3, transparency=0.5, color=green, style=patchnogrid) :
b1 := animate(plot3d, [[x, A, y], x=0..3, y=0..40, color=yellow, style=patchnogrid], A=0..3) :

```

```

c1 := animate(pointplot3d, [[2, A, 12 + 5·A2], symbol=solidcircle, symbolsize=30, color=blue], A
=0..3) :
d1 := animate(pointplot3d, [[2, A, 0], symbol=solidcircle, symbolsize=30, color=blue], A=0..3) :
e1 := animate(spacecurve, [[2, A·t, 0], t=0..1, color=red, thickness=5], A=0..3) :
f1 := animate(spacecurve, [[t, A, 0], t=0..2, color=red, thickness=5], A=0..3) :
g1 := animate(spacecurve, [[2, A, t·(12 + 5·A2)], t=0..1, color=red, thickness=5], A=0..3) :
h1 := animate(spacecurve, [[3·t, A, 27·t2 + 5·A2], t=0..1, thickness=15, color=magenta], A=0
..3) :
j1 := animate(spacecurve, [[2 + 3t, A, 12 + 5A2 + 36t], t=-1/2..1/2, color=blue, thickness=5], A
=0..3) :
display(a1, b1, c1, d1, e1, f1, g1, h1, j1, axes=normal)
A=0.

```



```
display(a, b, c, d, e, f, g, h, j, a1, b1, c1, d1, e1, f1, g1, h1, j1, axes=normal)
```

$$A = 1.5000$$

