Question 15

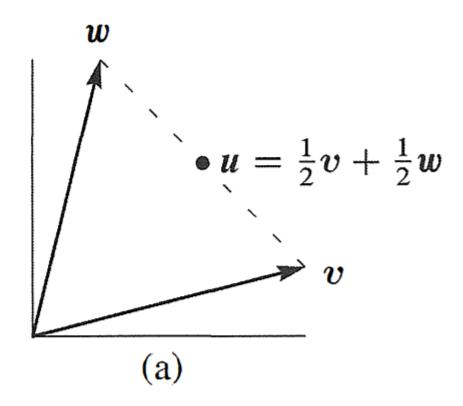
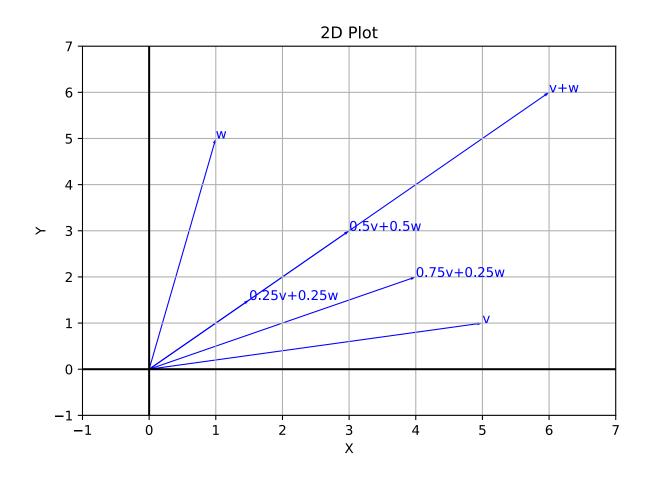


Figure 1.5: Problems **15–19** in a plane

Figure 1.5a shows $\frac{1}{2} v + \frac{1}{2} w$. Mark the points $\frac{3}{4} v + \frac{1}{4} w$ and $\frac{1}{4} v + \frac{1}{4} w$ and v + w.

Answer:



```
import sys
sys.path.append('./src')
from libs.geometryobjects import Vector
from libs.plots import Plot2D
pl = Plot2D(plot_array=False, plot_name=True)
v = Vector([5, 1], 'v')
w = Vector([1, 5], 'w')
vecs = [
    ٧,
    0.5 * v + 0.5 * w
    0.75 * v + 0.25 * w
    0.25 * v + 0.25 * w
    V + W
]
pl.plot_vectors(vecs)
pl.savefig(__file__.replace('.py', '.svg'))
pl.show()
```

Solution:

