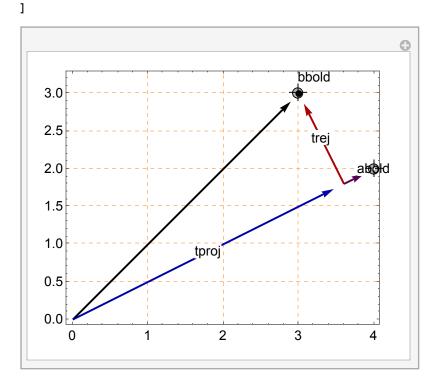
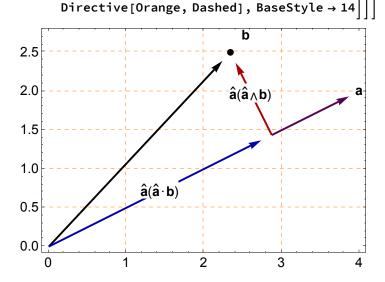
```
(* export function for plot figures *)
<< peeters`
peeters`setGitDir["../project/figures/"]
peeters`
/Users/pjoot/project/figures</pre>
```

Rework the manipulate for figure in reciprocal.tex

```
bold = Style[#, Bold] &;
(*\hat{a}(\hat{a}\cdot b)) // FullForm
   â(â ^ b ) // FullForm*)
abold = bold["a"];
bbold = bold["b"];
tproj = Row[{OverHat[abold], "(", CenterDot[OverHat[abold], bbold], ")"}];
trej = Row[{OverHat[abold], "(", Wedge[OverHat[abold], bbold], ")"}];
Manipulate[
 DynamicModule[{ bproj, brej, o, s, ao, to, acap, bcap},
  0 = \{0, 0\};
  ao = \{0, .15\};
  s = 0;
  to[start_, end_, ss_:s] = start + (end-start) (1 + ss/Norm[end-start]);
  acap = a / Norm[a];
  bcap = b / Norm[b];
  bproj = acap (acap.b);
  brej = b - bproj;
  Graphics[{
    Thick
    , Arrow[{o, b}, ao]
    , Darker[Blue]
    , Arrow[{o, bproj}, ao]
    , Darker[Purple]
    , Arrow[{bproj, a}, ao]
```

```
, Darker[Red]
   , Arrow[{bproj, b}, ao]
   , Black
   , PointSize[Large]
   , Point[b]
   , Text[bbold , to[o, b, 0.3], Background → White]
   , Text[abold , to[o, a], Background → White]
   , Text[tproj , to[o, bproj / 2], Background \rightarrow White]
   , Text[trej , to[bproj , bproj + brej / 2], Background → White]
  }
  , Frame → True
  , GridLines → Automatic
  , GridLinesStyle \rightarrow Directive[Orange, Dashed]
  , BaseStyle \rightarrow 14 (* this changes the font, making it bigger *)
 ]
]
, {{a, {4, 2}}}, Locator}
, {{b, {3, 3}}, Locator}
```





peeters`exportForLatex["projectionAndRejectionFig1", sn]
{projectionAndRejectionFig1.eps, projectionAndRejectionFig1pn.png}

(*\$Path*)
(*Directory[]*)